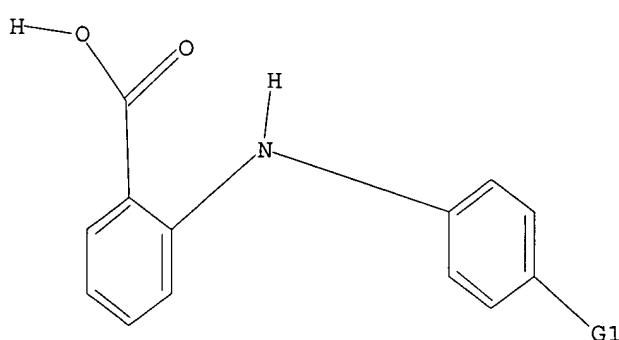


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G1 O, S

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 SAMPLE SCREEN SEARCH COMPLETED - 56 TO ITERATE

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 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 672 TO 1568  
 PROJECTED ANSWERS: 44 TO 476

L2 13 SEA SSS SAM L1

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 SEARCH TIME: 00.00.01

L3 218 SEA SSS FUL L1

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NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;  
saved answer sets no longer valid  
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search fields  
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 32 Nov 25 More calculated properties added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01A.

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
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STRUCTURE FILE UPDATES: 13 JAN 2003 HIGHEST RN 478909-86-3  
DICTIONARY FILE UPDATES: 13 JAN 2003 HIGHEST RN 478909-86-3

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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FILE COVERS 1907 - 14 Jan 2003 VOL 138 ISS 3  
 FILE LAST UPDATED: 13 Jan 2003 (20030113/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

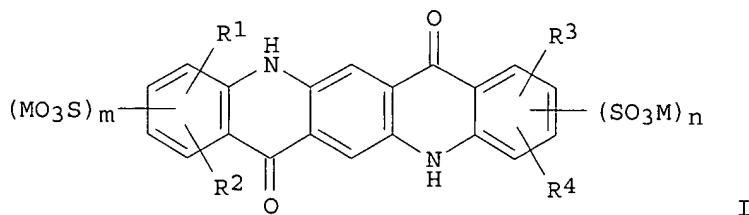
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L7 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:640306 CAPLUS  
 DOCUMENT NUMBER: 129:261735  
 TITLE: Water-soluble quinacridone dyes and their use  
 INVENTOR(S): Etzbach, Karl-Heinz; Kranz, Carolin; Sens, Rudiger  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

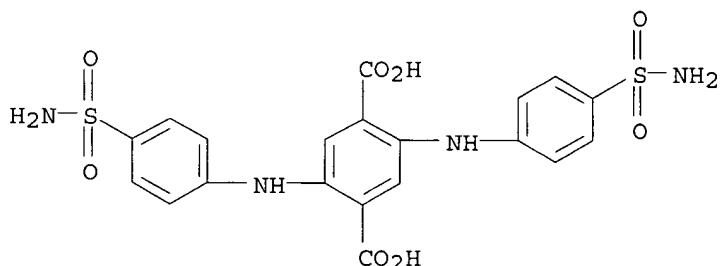
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WO 9841582	A1	19980924	WO 1998-EP1353	19980309 <--
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RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19711443	A1	19980924	DE 1997-19711443	19970319 <--
EP 970149	A1	20000112	EP 1998-913688	19980309
EP 970149	B1	20020828		
R: DE, FR, GB, SE, FI				
JP 2001518129	T2	20011009	JP 1998-540088	19980309

US 6152968 A 20001128 US 1999-380615 19990917 <--  
 PRIORITY APPLN. INFO.: DE 1997-19711443 A 19970319  
 WO 1998-EP1353 W 19980309

OTHER SOURCE(S) : MARPAT 129:261735  
 GI



- AB Water-sol. quinacridones (I; M = Li, K, Na, ammonium; R1, R2, R3, R4 = H, C1-8-alkyl, C1-8-alkoxy, carboxyl, C1-4-alkoxycarbonyl, sulfamoyl, mono- or di-(C1-4)-alkylsulfamoyl, carbamoyl, mono- or di-(C1-4)-alkylcarbamoyl, unsubstituted or substituted mono- or diphenylsulfamoyl, unsubstituted or substituted mono- or diphenylcarbamoyl, halogen, nitro or cyano; m, n = 0-2; sum n + m .gtoreq. 1) and their mixts. are used to dye and print natural and synthetic fiber materials. I may also be used in bulk dyeing of paper and in ink-jet inks and form stable colorant mixts. and wet-fast prints. In an example, 2,5-bis(4-sulfamoylanilino)terephthalic acid was cyclized to 2,9-quinacridonedisulfonic acid, which was obtained in the form of its diammonium salt (.lambda.max 502, 532 nm).
- IT 207793-48-4, 2,5-Bis(4-sulfamoylanilino)terephthalic acid  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (starting material; water-sol. quinacridone dyes for paper and ink-jet inks)
- RN 207793-48-4 CAPLUS
- CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-(aminosulfonyl)phenyl]amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:331458 CAPLUS  
 DOCUMENT NUMBER: 129:17060  
 TITLE: Incorporation of sulfonated precursors during quinacridone preparation  
 INVENTOR(S): Badejo, Ibraheem T.; Britanak, John F.; Rice, Daphne

J.

PATENT ASSIGNEE(S): Bayer Corp., USA  
 SOURCE: U.S., 12 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

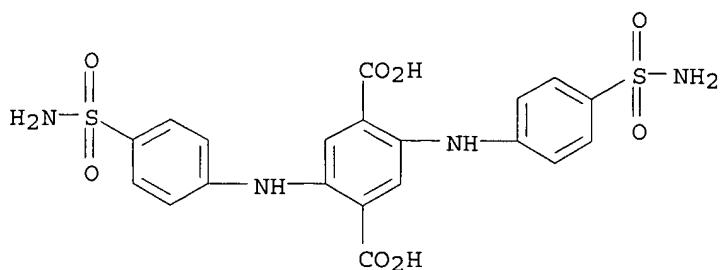
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5755873	A	19980526	US 1996-748742	19961118 <--
EP 842987	A2	19980520	EP 1997-119395	19971106 <--
EP 842987	A3	19980805		
EP 842987	B1	20020904		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  
 JP 10158536 A2 19980616 JP 1997-327209 19971113 <--

PRIORITY APPLN. INFO.: US 1996-748742 A 19961118  
 OTHER SOURCE(S): CASREACT 129:17060; MARPAT 129:17060

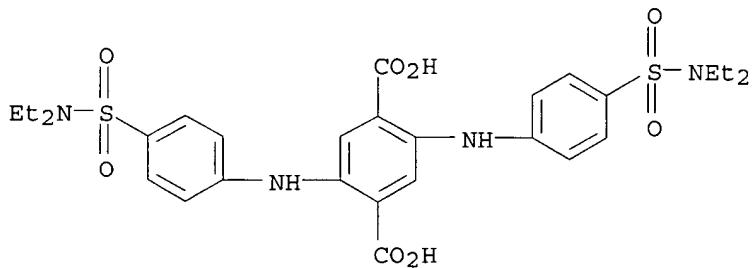
AB The first step for prep. quinacridone pigments includes heating a reaction mixt. comprising (i) a 2,5-dianilinoterephthalic acid, a 2,5-dianilino-3,6-dihydroterephthalic acid, or a 2,5-dianilino-3,6-dioxo-1,4-cyclohexadiene-1,4-dicarboxylic acid 100, (ii) one or more sulfo- or sulfamoyl-contg. derivs. of 2,5-dianilinoterephthalic acid, 2,5-dianilino-3,6-dihydroterephthalic acid, and/or 2,5-dianilino-3,6-dioxo-1,4-cyclohexadiene-1,4-dicarboxylic acid 0.1-15, and (iii) a dehydrating agent 3-20 parts, with the proviso that if either component (i) or component (ii) is a 2,5-dianilino-3,6-dihydroterephthalic acid or deriv. thereof, then this step addnl. comprises an oxidn. stage. In the second step the reaction mixt. from the first step is drowned with a liq. in which the quinacridone pigment is substantially insol. The final step consists of isolating the pigment. The presence of the sulfonated dicarboxylic acid in the ring closure step provides quinacridone pigments having deeper, brighter masstones and improved transparency and rheol. properties. Examples were given for the prepn. of quinacridone, 2,9-dimethylquinacridone, and gamma-quinacridone, using polyphosphoric acid cyclization catalyst and 2,5-bis(4-sulfamoylanilino)terephthalic acid, 2,5-bis[4-(3,4-dimethyl-5-isoxazolylsulfamoyl)anilino]terephthalic acid, 2,5-bis[4-(diethylsulfamoyl)anilino]terephthalic acid, or di-Me 2,5-bis[4-(3-methoxypropylsulfamoyl)anilino]-1,4-cyclohexadiene-1,4-dicarboxylate.

IT 207793-48-4P, 2,5-Bis(4-sulfamoylanilino)terephthalic acid  
 207793-50-8P, 2,5-Bis[4-(diethylsulfamoyl)anilino]terephthalic acid 207793-52-0P, 2,5-Bis[4-(3,4-dimethyl-5-isoxazolylsulfamoyl)anilino]terephthalic acid  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)  
 (prepn. of quinacridone pigments in presence of sulfonated precursors)  
 RN 207793-48-4 CAPLUS  
 CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-(aminosulfonyl)phenyl]amino]-(9CI) (CA INDEX NAME)



RN 207793-50-8 CAPLUS

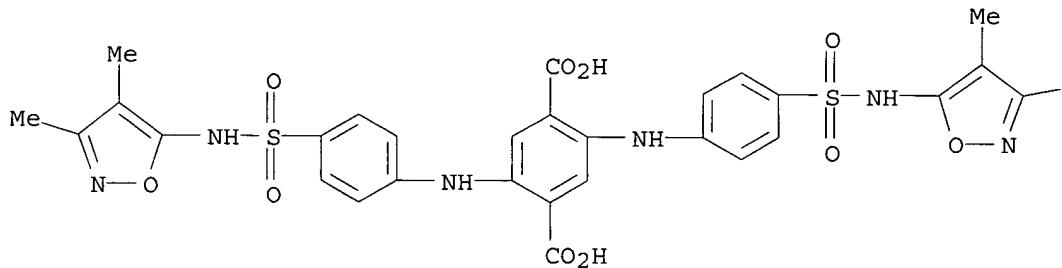
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-[(diethylamino)sulfonyl]phenyl]amino]- (9CI) (CA INDEX NAME)



RN 207793-52-0 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-[[3,4-dimethyl-5-isoxazolyl]amino]sulfonyl]phenyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

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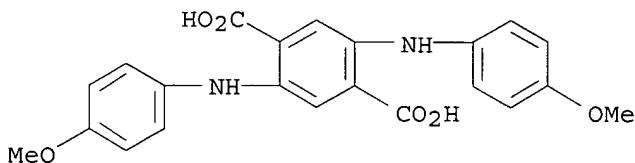
IT 41680-75-5, 2,5-Bis(4-methoxyanilino)terephthalic acid

RL: RCT (Reactant); RACT (Reactant or reagent)

(starting material; prepn. of quinacridone pigments in presence of sulfonated precursors)

RN 41680-75-5 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:804041 CAPLUS

DOCUMENT NUMBER: 128:22916

TITLE: Synthesis of 1,3-disubstituted quinazolinediones as potential pharmaceuticals

INVENTOR(S): Smith, Adrian Leonard

PATENT ASSIGNEE(S): Merck Sharp &amp; Dohme Limited, UK

SOURCE: Brit. UK Pat. Appl., 13 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2309456	A1	19970730	GB 1997-628	19970114 <--
US 5783698	A	19980721	US 1997-779498	19970107 <--
PRIORITY APPLN. INFO.:			GB 1996-1293	19960123

OTHER SOURCE(S): CASREACT 128:22916

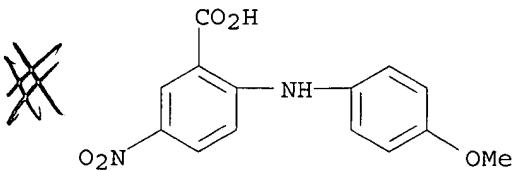
AB This patent application describes a method for the synthesis of 1,3-disubstituted quinazolinedione derivs. comprising: (a) reacting a haloformate functionalized polystyrene resin with a substituted anthranilic acid deriv. to form a urethane-linkage; (b) reacting the product of step (a) with a primary amine to form an anthranilamide deriv., (c) heating the anthranilamide to effect intramol. cyclization thereby liberating the 1,3-disubstituted quinazolinedione deriv. from the resin into soln.; and (d) isolating the 1,3-disubstituted quinazolinedione by filtration and solvent removal. This invention provides a combinatorial library based upon the quinazolinedione template prep'd. according to the above-described synthetic method.

IT 6686-68-6

RL: RCT (Reactant); RACT (Reactant or reagent)  
(synthesis of quinazolinediones as potential pharmaceuticals and combinatorial library based upon quinazolinedione template)

RN 6686-68-6 CAPLUS

CN Benzoic acid, 2-[(4-methoxyphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



L7 ANSWER 4 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:732153 CAPLUS  
 DOCUMENT NUMBER: 127:359968  
 TITLE: Quinacridone pigments and incorporation of pigment derivatives during their preparation  
 INVENTOR(S): Badejo, Ibraheem T.; Campos, Margot; Greene, Michael J.; Rice, Daphne J.  
 PATENT ASSIGNEE(S): Bayer Corporation, USA  
 SOURCE: Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 805189	A2	19971105	EP 1997-106253	19970416 <--
EP 805189	A3	19980722		
EP 805189	B1	20020710		
R: CH, DE, ES, FR, GB, IT, LI				
US 5713999	A	19980203	US 1996-639598	19960429 <--
CA 2199597	AA	19971029	CA 1997-2199597	19970310 <--
JP 10053714	A2	19980224	JP 1997-121563	19970425 <--
US 1996-639598 A 19960429				

PRIORITY APPLN. INFO.: MARPAT 127:359968

AB Quinacridone pigments are prep'd. by heating, at 80-145.degree., a reaction mixt. contg. (i) 2,5-dianilinoterephthalic acid, a 2,5-dianilinodihydroterephthalic acid ester, and/or a deriv. thereof, (ii) 3-15 parts per part of component (i), of a dehydrating agent, and (iii) 0.1-15% based on component (i), of one or more non-quinacridone pigments, with the proviso that if component (i) is a 2,5-dianilino-6,13-dihydroterephthalic acid ester or a deriv. thereof, this reaction step addnl. comprises an oxidn. step; (b) drowning the reaction mixt. from step (a) by adding said reaction mixt. to about 3 to about 15 parts by wt., per part of component (a)(i), of a liq. in which the quinacridone pigment is substantially insol.; (c) isolating the quinacridone pigment; (d) optionally, conditioning the quinacridone pigment; and (e) optionally, blending the resultant pigment with one or more quinacridone derivs. The resulting reaction mixt. is drowned by adding it to 3-15 parts per 100 parts (i) of a liq. in which the quinacridone pigment is substantially insol. The quinacridone pigment is then isolated and optionally conditioned and/or blended with one or more quinacridone derivs. This process provides for pigments with improved masstones and rheol. properties. In an example, 2,5-dianilinoterephthalic acid was cyclocondensed with polyphosphoric acid in the presence of copper N-[3-(dimethylamino)propyl]phthalocyaninesulfonamide to give a brilliant violet quinacridone pigment with properties superior to a com. product.

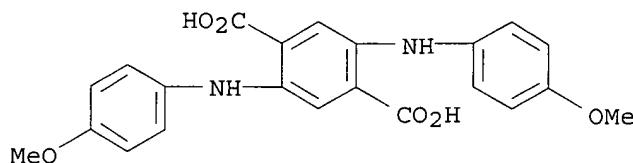
IT 41680-75-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(starting material; prepn. of quinacridones in presence of other pigments)

RN 41680-75-5 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:719569 CAPLUS

DOCUMENT NUMBER: 127:359967

TITLE: Quinacridone pigments and incorporation of aromatic polycyclic compounds in their preparation

INVENTOR(S): Badejo, Ibraheem T.; Rice, Daphne J.

PATENT ASSIGNEE(S): Bayer Corporation, USA

SOURCE: U.S., 9 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

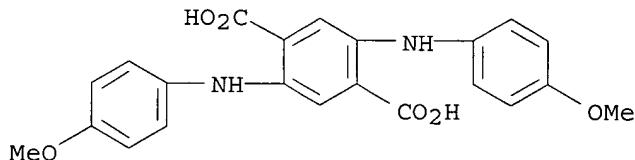
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US 5683502	A	19971104	US 1996-639599	19960429 <--
CA 2199599	AA	19971029	CA 1997-2199599	19970310 <--
EP 805188	A2	19971105	EP 1997-106254	19970416 <--
EP 805188	A3	19980722		
R: CH, DE, FR, GB, LI				
JP 10053713	A2	19980224	JP 1997-120117	19970424 <--
PRIORITY APPLN. INFO.:			US 1996-639599	19960429

OTHER SOURCE(S): CASREACT 127:359967; MARPAT 127:359967

AB This invention relates to a multistep process for the prepn. of quinacridone pigments in which the first step (a) is heating, at a temp. of about 80-145.degree., a reaction mixt. contg. (i) 2,5-dianilinoterephthalic acid, a 2,5-dianilino-3,6-dihydroterephthalic acid ester, and/or a deriv. thereof, (ii) about 3-15 parts per part of component (i), of a dehydrating agent, and (iii) about 0.1-15%, based on component (i), of one or more non-pigmentary arom. polycyclic compds. and/or derivs. thereof, with the proviso that if component (i) is a 2,5-dianilino-3,6-dihydroterephthalic acid ester or a deriv. thereof, then reaction step (a) addnl. comprises an oxidn. step. The next step (b) comprises drowning the reaction mixt. from step (a) by adding said reaction mixt. to about 3-15 parts, per part of component (i), of a liq. in which the quinacridone pigment is substantially insol. The final step(s) consist of (c) isolating the quinacridone pigment; (d) optionally conditioning the quinacridone pigment; and (e) optionally blending the resultant pigment with one or more quinacridone derivs. The process provides pigments having deeper, brighter, and more transparent masstones in addn. to improved rheol. properties. In an example, 2,5-bis(4-methylanilino)terephthalic acid was cyclized in polyphosphoric

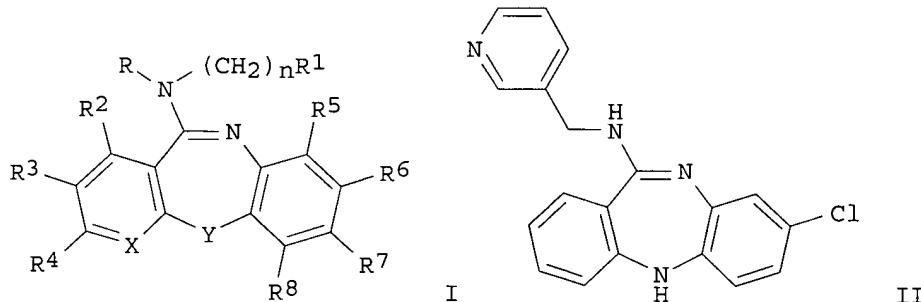
acid contg. anthraquinone and the product was drowned in MeOH to give magenta 2,9-dimethylquinacridone with better rheol. properties than a com. pigment.

IT 41680-75-5, 2,5-Bis(4-methoxyanilino)terephthalic acid  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (starting material; prepn. of quinacridone pigments with improved properties)  
 RN 41680-75-5 CAPLUS  
 CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1997:145240 CAPLUS  
 DOCUMENT NUMBER: 126:157525  
 TITLE: Tricyclic inhibitors of protein farnesyltransferase  
 INVENTOR(S): Bolton, Gary Louis; Doherty, Annette Marian;  
 Kaltenbronn, James Stanley; Quin, John, III; Scholten,  
 Jeffrey D.; Sebolt-Leopold, Judith; Zinnes, Harold  
 PATENT ASSIGNEE(S): Warner-Lambert Company, USA; Bolton, Gary Louis;  
 Doherty, Annette Marian; Kaltenbronn, James Stanley;  
 Quin, John, III; Scholten, Jeffrey D.; Sebolt-Leopold,  
 Judith; Zinnes, Harold  
 SOURCE: PCT Int. Appl., 82 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700252	A1	19970103	WO 1996-US8528	19960604 <--
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US 5919780	A	19990706	US 1997-981505	19971211 <--
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			WO 1996-US8528	W 19960604
OTHER SOURCE(S):	MARPAT 126:157525			
GI				

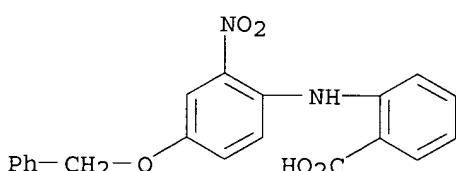


AB Title compds. I [wherein X = N or CR9; Y = NR10, CH2, O, S, SO, SO2, C:O, or CH(OH); R = H or alkyl; R1 = heteroaryl; n = 1-5; R2-R10 = H or various substituents] are useful as inhibitors of protein farnesyltransferase (PFT), and thus for the treatment of proliferative diseases including cancer, restenosis and psoriasis, and as antiviral agents. For example, condensation of 8-chloro-5,10-dihydrodibenzo[b,e][1,4]diazepine-11-one with 3-(aminomethyl)pyridine in refluxing EtOCH<sub>2</sub>CH<sub>2</sub>OH gave 80% title compd. II. Eighteen I were prep'd. and tested for PFT inhibiting and anticancer activity. In two *in vitro* bioassays, II had IC<sub>50</sub> values of 3.7

IT 167892-62-8P, N-[2-Nitro-4-(benzyloxy)phenyl]anthranilic acid  
167892-63-9P, N-[2-Amino-4-(benzyloxy)phenyl]anthranilic acid  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

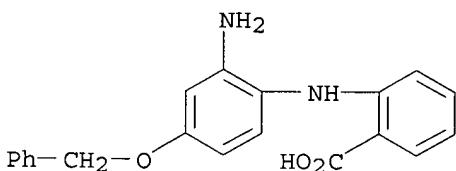
BN 167882 63-8 GABLU 2 farnesyltransferase

RN 167892-62-8 CAPLUS  
CN Benzoic acid, 2-[(2-nitro-4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)



RN 167892-63-9 CAPLUS

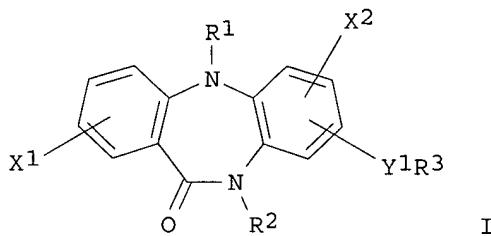
CN Benzoic acid, 2-[(2-amino-4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1995:661142 CAPLUS

DOCUMENT NUMBER: 123:198838  
 TITLE: Dibenzodiazepine endothelin antagonists  
 INVENTOR(S): Murugesan, Natesan  
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA  
 SOURCE: U.S., 12 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5420123	A	19950530	US 1992-993562	19921221 <--
PRIORITY APPLN. INFO.:			US 1992-993562	19921221
OTHER SOURCE(S):		MARPAT 123:198838		
GI				



AB Dibenzodiazepines I wherein: one of R1 and R2 is  $Y_2CO_2H$  and the other is R; R is (a) hydrogen, (b) alkyl, (c) alkenyl, (d) alkynyl, (e) cycloalkyl, (f) cycloalkenyl, (g) aryl, (h) cycloalkylalkyl, (i) cycloalkenylalkyl, or (j) aralkyl; R3 is aryl or heteroaryl; X1 and X2 are each independently (a) hydrogen, (b) halo or haloalkyl, (c) hydroxy, (d) alkoxy, (e) cyano, (f) nitro, or (g) amino, alkylamino, or dialkylamino; Y1 is (a) a single bond, (b) alkylene, (c) alkenylene, (d) alkynylene, (e)  $Z_1OZ_2$ , (f)  $Z_1C(O)Z_2$ , (g)  $Z_1OC(O)Z_2$ , (h)  $Z_1C(O)OZ_2$ , (i)  $Z_1N(Z_3)Z_2$ , (j)  $Z_1C(O)N(H)Z_2$ , (k)  $Z_1N(H)C(O)Z_2$ , (l)  $Z_1C(S)Z_2$ , or (m)  $Z_1SZ_2$ ; Y2 is (a) alkylene, (b) alkenylene, (c) alkynylene, (d)  $Z_1OZ_2$  (wherein Z2 is other than a single bond), (e)  $Z_1C(O)Z_2$ , (f)  $Z_1OC(O)Z_2$ , (g)  $Z_1C(O)OZ_2$  (wherein Z2 is other than a single bond), (h)  $Z_2C(O)N(H)Z_2$  (wherein Z2 is other than a single bond), (i)  $Z_1N(H)C(O)Z_2$ , (j)  $Z_1C(S)Z_2$ , or (k)  $Z_1SZ_2$  (wherein Z2 is other than a single bond); Z1 and Z2 are each independently a single bond, alkylene, alkenylene, or alkynylene; and Z3 is hydrogen, lower alkyl, alkanoyl, aroyl, or aralkanoyl, are disclosed as endothelin antagonists (no data). Thus, e.g., alkylation of 4-bromo-3-nitrophenol with 1-(bromomethyl)naphthalene afforded 2-bromo-5-(1-naphthalenylmethoxy)nitrobenzene (92%); aminolysis of the latter with anthranilic acid afforded 2-nitro-4-(1-naphthalenylmethoxy)diphenylamine-2'-carboxylic acid (95%); redn. to the 2-amino compd. (88%) followed by cyclodehydration afforded 5,11-dihydro-8-(1-naphthalenylmethoxy)-11-oxo-10H-dibenzo[b,e]-1,4-diazepine (48%); alkylation of the latter with Me bromoacetate (69%) followed by sapon. afforded title compd. 5,11-dihydro-8-(1-naphthalenylmethoxy)-11-oxo-10H-dibenzo[b,e]-1,4-diazepine-10-acetic acid (I; X1 = R1 = X2 = H; R2 =  $CH_2CO_2H$ , Y1R3 = 1-naphthalenylmethoxy, 77% yield for sapon. step).

IT 167892-57-1P 167892-58-2P, 2-Amino-4-(1-naphthalenylmethoxy)diphenylamine-2'-carboxylic acid 167892-62-8P

, 2-Nitro-4-benzyloxydiphenylamine-2'-carboxylic acid 167892-63-9P

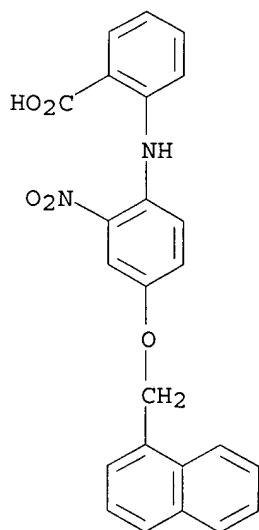
, 2-Amino-4-benzyloxydiphenylamine-2'-carboxylic acid

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(dibenzodiazepine endothelin antagonists)

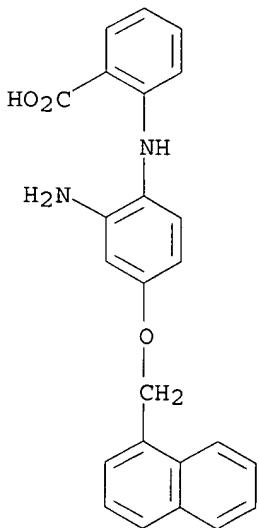
RN 167892-57-1 CAPLUS

CN Benzoic acid, 2-[[4-(1-naphthalenylmethoxy)-2-nitrophenyl]amino]- (9CI)  
(CA INDEX NAME)



RN 167892-58-2 CAPLUS

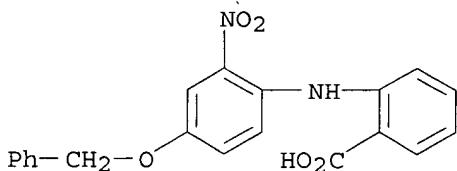
CN Benzoic acid, 2-[[2-amino-4-(1-naphthalenylmethoxy)phenyl]amino]- (9CI)  
(CA INDEX NAME)



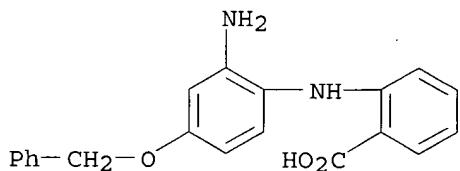
RN 167892-62-8 CAPLUS

CN Benzoic acid, 2-[[2-nitro-4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX)

NAME)



RN 167892-63-9 CAPLUS

CN Benzoic acid, 2-[(2-amino-4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX  
NAME)

L7 ANSWER 8 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:570871 CAPLUS

DOCUMENT NUMBER: 122:314588

TITLE: Preparation of sulfonamide and sulfonic ester derivatives each having tricyclic heterocyclic ring as antitumor agents

INVENTOR(S): Yoshino, Hiroshi; Ueda, Norihiro; Niijima, Jun; Haneda, Toru; Kotake, Yoshihiko; Yoshimatsu, Kentaro; Watanabe, Tatsuo; Nagasu, Takeshi; Tsukahara, Naoko; et al.

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9503279	A1	19950202	WO 1994-JP1231	19940726 <--
W: CA, FI, NO, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2144854	AA	19950202	CA 1994-2144854	19940726 <--
EP 679641	A1	19951102	EP 1994-921819	19940726 <--
EP 679641	B1	20021002		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 08081441	A2	19960326	JP 1994-174643	19940726 <--
AT 225334	E	20021015	AT 1994-921819	19940726
NO 9501108	A	19950523	NO 1995-1108	19950323 <--
US 5834462	A	19981110	US 1995-397254	19950323 <--
FI 9501416	A	19950517	FI 1995-1416	19950324 <--
US 5854274	A	19981229	US 1996-760738	19961205 <--
US 5846969	A	19981208	US 1997-873033	19970611 <--

## PRIORITY APPLN. INFO.:

JP 1993-202466	A 19930726
JP 1994-158870	A 19940711
WO 1994-JP1231	W 19940726
US 1995-397254	A3 19950323
US 1996-760738	A3 19961205

OTHER SOURCE(S): MARPAT 122:314588

GI For diagram(s), see printed CA Issue.

AB N-heterocyclarylarylsulfonamide and heterocyclyl arylsulfonate derivs. each having a tricyclic hetero ring, represented by general formula G-SO<sub>2</sub>-L-M [G = a 5- or 6-membered arom. ring; L = O or NR<sub>1</sub>, wherein R<sub>1</sub> = H or lower alkyl; M = a tricyclic structure selected from the members Q - Q<sub>5</sub>, wherein rings A and B represent each a 5 or 6-membered unsatd. ring; X = NR<sub>2</sub> (wherein R<sub>2</sub> = H or lower alkyl) or NHCO; Y = O, S(O)<sub>n</sub>, CR<sub>3</sub>R<sub>4</sub>, CO, NR<sub>5</sub>, CHR<sub>6</sub>CHR<sub>7</sub>, CR<sub>8</sub>:R<sub>9</sub>, NR<sub>10</sub>CO, N:CR<sub>11</sub>, OCHR<sub>12</sub>, S(O)<sub>n</sub>CH<sub>13</sub>, or NR<sub>14</sub>CHR<sub>15</sub>; Z = N or CR<sub>16</sub>, wherein n represents 0, 1 or 2; R<sub>3</sub> - R<sub>13</sub>, R<sub>15</sub>, R<sub>16</sub> = H or lower alkyl; R<sub>14</sub> = H, lower alkyl, or lower acyl] are prep'd. Thus, 107 mg 1-amino-10H-phenothiazine was dissolved in pyridine and a soln. of 115 mg 4-methoxybenzenesulfonyl chloride in THF was added followed by stirring the mixt. overnight at room temp. to give, after silica gel chromatog., a title compd. (I) (115 mg). I and phenothiazin-3-one deriv. (II) showed IC<sub>50</sub> of 0.11 and 0.016 .mu.g/mL against KB cells (human nasal cavity cancer). A total of 49 I were prep'd.

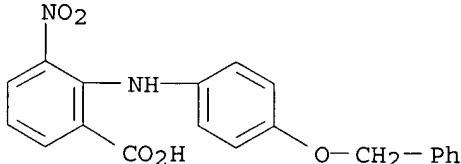
IT 163308-33-6P, 2-[(4-Benzylxyphenyl)amino]-3-nitrobenzoic acid

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate for prepn. of N-heterocyclarylarylsulfonamide as antitumor agent)

RN 163308-33-6 CAPLUS

CN Benzoic acid, 3-nitro-2-[[4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:264633 CAPLUS

DOCUMENT NUMBER: 122:55722

TITLE: Preparation of 4-anilino-2,6-di-tert-butylphenols as allergy inhibitors.

INVENTOR(S): Scherrer, Robert A.

PATENT ASSIGNEE(S): Riker Laboratories, Inc., USA

SOURCE: U.S., 15 pp. Cont.-in-part of U.S. Ser. No. 757,358.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

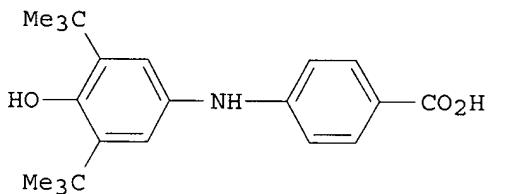
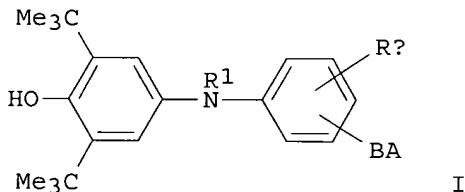
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5347036	A	19940913	US 1993-67636	19930526 <--
ZA 8605090	A	19880224	ZA 1986-5090	19860708 <--

IL 79376	A1	19910512	IL 1986-79376	19860709 <--
IL 94750	A1	19910512	IL 1986-94750	19860709 <--
IL 94751	A1	19910512	IL 1986-94751	19860709 <--
AU 8660085	A1	19870129	AU 1986-60085	19860711 <--
AU 585626	B2	19890622		
DK 8603447	A	19870123	DK 1986-3447	19860721 <--
DK 170666	B1	19951127		
NO 8602924	A	19870123	NO 1986-2924	19860721 <--
NO 172230	B	19930315		
NO 172230	C	19930623		
ES 2000368	A6	19880216	ES 1986-457	19860722 <--
JP 63045243	A2	19880226	JP 1986-172657	19860722 <--
JP 06067884	B4	19940831		
CA 1283419	A1	19910423	CA 1986-514378	19860722 <--
CA 1295336	A2	19920204	CA 1990-615810	19900808 <--
CA 1295337	A2	19920204	CA 1990-615811	19900808 <--
CA 1333618	A1	19941220	CA 1990-615812	19900808 <--
US 5237070	A	19930817	US 1991-701676	19910516 <--
JP 07053485	A2	19950228	JP 1994-41142	19940311 <--
JP 2515486	B2	19960710		
US 5416113	A	19950516	US 1994-263390	19940622 <--
US 5495043	A	19960227	US 1995-435585	19950505 <--
US 5498745	A	19960312	US 1995-435582	19950505 <--
US 5527824	A	19960618	US 1995-437143	19950505 <--

## PRIORITY APPLN. INFO.:

US 1985-757358	19850722
US 1986-879365	19860627
IL 1986-79376	19860709
CA 1986-514378	19860722
US 1993-67636	19930526
US 1994-263390	19940622

OTHER SOURCE(S) : MARPAT 122:55722  
GI



AB Title compds. [I; R = H, alkyl, alkoxy, alkylthio, halo, amino, acyamido, OH; n = 0-2; R1 = H, alkyl, Ac, F3CCO; A = CO2H, (N-methyl)tetrazolyl, CONHSO2CF3; B = bond, (O- or S-interrupted) alkylene, alkenylene, CONHCH2; with provisos], and esters and salts thereof, were prep'd. Thus, 2,6-di(tert-butyl)-p-benzoquinone, 4-aminobenzoic acid, and BF3.Et2O were heated in THF to give the monoimine deriv., which was hydrogenated in EtOH over Pd/C to give title compd. II. I showed ED40 .ltoreq.40 mg/kg i.p. in

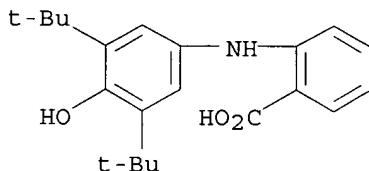
ovalbumin-induced bronchoconstriction in guinea pigs. I were relatively inactive against cyclooxygenase; some of the imine intermediates showed antiallergic activity.

IT 107858-23-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of 4-anilino-2,6-di-tert-butylphenols as allergy inhibitors)

RN 107858-23-1 CAPLUS

CN Benzoic acid, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]amino]- (9CI)  
(CA INDEX NAME)



L7 ANSWER 10 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1993:628101 CAPLUS

DOCUMENT NUMBER: 119:228101

TITLE: Solid solutions containing two different quinacridone compounds

INVENTOR(S): Zaloum, Charles G.; Greene, Michael J.

PATENT ASSIGNEE(S): Miles Inc., USA

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 544160	A1	19930602	EP 1992-119434	19921113 <--
EP 544160	B1	19970528		
R: CH, DE, FR, GB, LI				
US 5236498	A	19930817	US 1991-799453	19911126 <--
CA 2082466	AA	19930527	CA 1992-2082466	19921109 <--
JP 05295290	A2	19931109	JP 1992-332265	19921119 <--

PRIORITY APPLN. INFO.: US 1991-799453 19911126

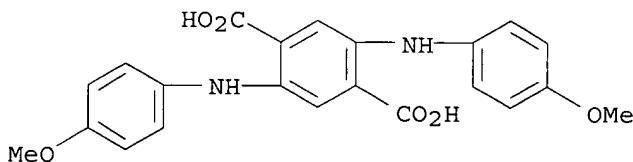
AB Violet quinacridone compns. comprise 5-75: 5-95 2,9-dimethoxyquinacridone (I) and 2,9-dichloroquinacridone(II) and show x-ray diffraction pattern that is different from the sum of x-ray diffraction patterns of individual I and II. Coatings, inks or plastic molding can be pigmented by the compns. and show good weather fastness.

IT 41680-75-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
(ring closure of, in manuf. of composite pigments for coatings, inks and plastic moldings)

RN 41680-75-5 CAPLUS

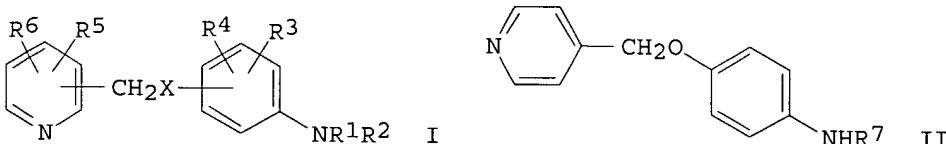
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1993:233895 CAPLUS  
 DOCUMENT NUMBER: 118:233895  
 TITLE: 2-quinolinyl methoxy compounds, medical uses and  
 intermediates therefor  
 INVENTOR(S): Nielsen, Ole Bent T.; Ahfelt-Ronne, Ian  
 PATENT ASSIGNEE(S): Leo Pharmaceutical Products Ltd., Den.  
 SOURCE: U.S., 23 pp. Cont.-in-part of U.S. 5,109,009.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5157039	A	19921020	US 1990-633390	19901231 <--
US 4826987	A	19890502	US 1986-834542	19860228 <--
US 5109009	A	19920428	US 1990-581121	19900910 <--
PRIORITY APPLN. INFO.:			GB 1985-6094	19850308
			GB 1985-25153	19851011
			US 1986-834542	19860228
			US 1987-140277	19871231
			US 1990-581121	19900910

OTHER SOURCE(S) : MARPAT 118:233895  
 GI

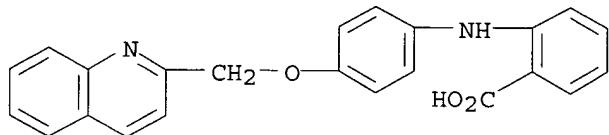


AB The title compds. [I; R<sub>1</sub>, R<sub>2</sub> = H, (un)substituted alkyl, aryl, aralkyl; R<sub>3</sub>-R<sub>6</sub> = H, halo, pseudohalo, cyano, NO<sub>2</sub>, amino, CO<sub>2</sub>H, OH, alkyl, alkoxy; R<sub>5</sub>R<sub>6</sub> = atoms required to form condensed, (un)substituted arom. ring; X = O, S, SO, SO<sub>2</sub>] were prep'd. as arachidonic acid and histamine inhibitors, and drugs. Thus, 4-AcNH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH was condensed with 4-(chloromethyl)pyridine-HCl to give acetanilide II (R<sub>7</sub> = Ac). This was deacetylated and methylated to give II (R<sub>7</sub> = Me). At 10 .mu.M selected I gave 51-100% inhibition of antigen-induced histamine release from rat peritoneal mast cells.

IT 146680-14-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prep'n. of, as drug)

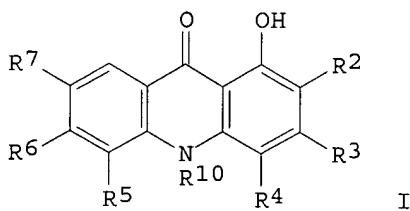
RN 146680-14-0 CAPLUS  
 CN Benzoic acid, 2-[[4-(2-quinolinylmethoxy)phenyl]amino]- (9CI) (CA INDEX  
 NAME)



L7 ANSWER 12 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1993:38775 CAPLUS  
 DOCUMENT NUMBER: 118:38775  
 TITLE: Preparation of multisubstituted 1-hydroxy-9-acridones  
 with anticancer activity  
 INVENTOR(S): Long-Su, Tsann; Watanabe, Kyoichi A.  
 PATENT ASSIGNEE(S): Sloan-Kettering Institute for Cancer Research, USA  
 SOURCE: PCT Int. Appl., 72 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

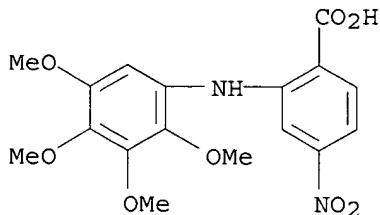
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9216509	A1	19921001	WO 1992-US2339	19920318 <--
W: AU, CA, JP, KR RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
US 5296602	A	19940322	US 1991-671126	19910318 <--
AU 9216761	A1	19921021	AU 1992-16761	19920318 <--
PRIORITY APPLN. INFO.:			US 1991-671126	19910318
			WO 1992-US2339	19920318

OTHER SOURCE(S): MARPAT 118:38775  
 GI

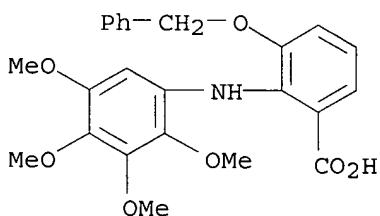


AB Title compds. I (R2, R3 = H, (unsatd.) C1-5 alkyl, HO, (unsatd.) C1-5 alkoxy, O-alkoxy-C1-5-alkyl, O-aryloxy-C1-5-alkyl, O-acyl, O-acyl, O-aryl; R4 = H, (unsatd.) C1-5 alkyl, HO, HOCH2, C1-5 alkoxy, etc.; R5-R7 = H, (unsatd.) C1-5 alkyl, sulfate, phosphate, HO, O-alkoxy-C1-5-alkyl, etc.; R10 = (unsatd.) C1-5 alkyl, amino-C1-5-alkyl, N-alkylamino, alkyl, etc.), some of which are prep'd., are given. 6-(Benzylmethoxy)-10-methyl-1,2,3,4,5-pentamethoxy-9-acridone (prepn. given) in MeOH contg. concd. HCl was refluxed for 14 h to give I (R2-R5 = MeO, R6 = PhCH2O, R7 = R8 = H, R10 = Me).

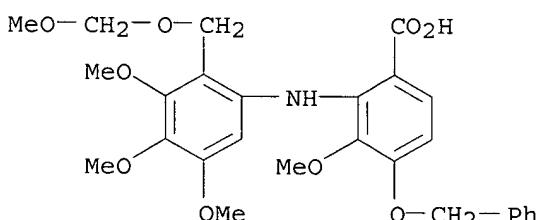
IT 142004-03-3 145183-07-9 145183-08-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (intermediate for substituted hydroxyacridone anticancer agents)  
 RN 142004-03-3 CAPPLUS  
 CN Benzoic acid, 4-nitro-2-[(2,3,4,5-tetramethoxyphenyl)amino]- (9CI) (CA INDEX NAME)



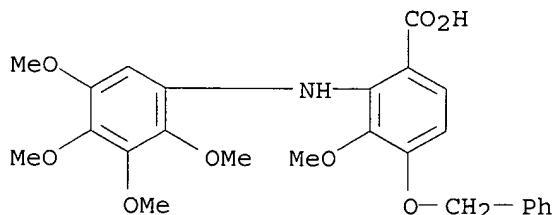
RN 145183-07-9 CAPPLUS  
 CN Benzoic acid, 3-(phenylmethoxy)-2-[(2,3,4,5-tetramethoxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 145183-08-0 CAPPLUS  
 CN Benzoic acid, 3-methoxy-4-(phenylmethoxy)-2-[(3,4,5-trimethoxy-2-(methoxymethoxy)methyl]phenyl]amino]- (9CI) (CA INDEX NAME)



IT 135082-42-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction of, in prepn. of anticancer agents)  
 RN 135082-42-7 CAPPLUS  
 CN Benzoic acid, 3-methoxy-4-(phenylmethoxy)-2-[(2,3,4,5-tetramethoxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1992:633873 CAPLUS  
 DOCUMENT NUMBER: 117:233873  
 TITLE: N-Phenyl-9-oxoacridine-4-carboxamides, methods for  
 their preparation and their use as neoplasm inhibitors  
 and for increasing the sensitivity toward an antitumor  
 drug or reversal of resistance to an antitumor drug  
 INVENTOR(S): Dumaitre, Bernard Andre; Dodic, Nerina  
 PATENT ASSIGNEE(S): Laboratoires Glaxo SA, Fr.  
 SOURCE: Eur. Pat. Appl., 82 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

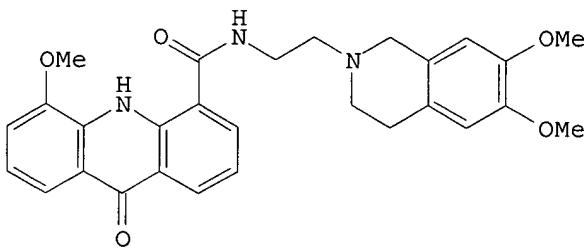
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 494623	A1	19920715	EP 1992-100123	19920107 <--
R: PT				
CA 2100258	AA	19920712	CA 1992-2100258	19920107 <--
WO 9212132	A1	19920723	WO 1992-EP20	19920107 <--
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
AU 9211543	A1	19920817	AU 1992-11543	19920107 <--
AU 652996	B2	19940915		
EP 569380	A1	19931118	EP 1992-901861	19920107 <--
EP 569380	B1	19970528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
JP 06506440	T2	19940721	JP 1992-501671	19920107 <--
JP 2783680	B2	19980806		
HU 68856	A2	19950828	HU 1993-1989	19920107 <--
PL 168202	B1	19960131	PL 1992-299989	19920107 <--
PL 169396	B1	19960731	PL 1992-307547	19920107 <--
AT 153660	E	19970615	AT 1992-901861	19920107 <--
ES 2104887	T3	19971016	ES 1992-901861	19920107 <--
CZ 283038	B6	19971217	CZ 1993-1378	19920107 <--
RU 2119482	C1	19980927	RU 1993-51543	19920107 <--
SK 280864	B6	20000814	SK 1993-730	19920107
ZA 9200183	A	19921028	ZA 1992-183	19920110 <--
IL 100631	A1	19960912	IL 1992-100631	19920110 <--
CN 1081181	A	19940126	CN 1992-109524	19920710 <--
CN 1042421	B	19990310		
NO 9302512	A	19930909	NO 1993-2512	19930709 <--
US 5604237	A	19970218	US 1995-468620	19950606 <--
PRIORITY APPLN. INFO.:		GB 1991-628	A	19910111

GB 1991-637	A 19910111
GB 1991-15956	A 19910724
GB 1991-15981	A 19910724
WO 1992-EP20	A 19920107
US 1993-84258	B1 19930726
US 1994-348946	A1 19941125

OTHER SOURCE(S) :

CASREACT 117:233873; MARPAT 117:233873

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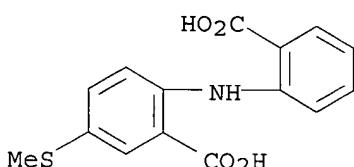
AB Certain N-phenyl-9-oxoacridine-4-carboxamide derivs. are claimed. The use of said compds. for the treatment of cancer, increasing the sensitivity toward an antitumor drug or to reverse the resistance to an antitumor drug is claimed. Pharmaceuticals contg. known neoplasm inhibitors, (alkalooids, anthracyclins, etc.) (i.e., drugs having a cross-resistance with the above drugs characterized by a multi drug-resistant phenotype) and said N-phenyl-9-oxoacridine-4-carboxamide derivs. are claimed. Thus, 9,10-dihydro-5-methoxy-9-oxo-N-[4-[2-(1,2,3,4-tetrahydro-6,7-dimethoxy-2-isoquinolinyl)ethyl]phenyl]-4-acridinecarboxamide (I) was prep'd. in a multistep synthesis. I had cytotoxic activity in multidrug-resistant chinese hamster ovary cells.

IT 143667-03-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of, as intermediate for N-phenyloxoacridinecarboxamide deriv.  
(neoplasm inhibitor))

RN 143667-03-2 CAPLUS

CN Benzoic acid, 2-[(2-carboxyphenyl)amino]-5-(methylthio)- (9CI) (CA INDEX NAME)



L7 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:607871 CAPLUS

DOCUMENT NUMBER: 115:207871

TITLE: Potential anticancer agents derived from acridine

INVENTOR(S): Watanabe, Kyoichi A.; Takahashi, Kiyobumi

PATENT ASSIGNEE(S): Sloan-Kettering Institute for Cancer Research, USA

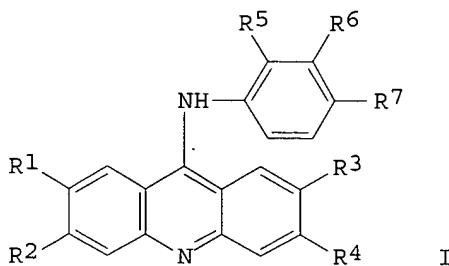
SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: **Patent**  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9105770	A1	19910502	WO 1990-US5958	19901017 <--
W: AU, CA, HU, JP, KR, SU RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
AU 9066260	A1	19910516	AU 1990-66260	19901017 <--
US 5229395	A	19930720	US 1991-754283	19910830 <--
PRIORITY APPLN. INFO.:			US 1989-422629	19891017
			WO 1990-US5958	19901017

OTHER SOURCE(S): MARPAT 115:207871  
 GI



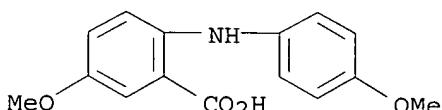
AB Numerous title compds. I [R1-R4 = H, lower alkyl, lower alkoxy; R5-R7 = H, (CH<sub>2</sub>)<sub>n</sub>OH, (CH<sub>2</sub>)<sub>n</sub>O<sub>2</sub>CNR<sub>8</sub>R<sub>9</sub>, R<sub>8</sub>,R<sub>9</sub> = H, lower alkyl, n = 1-4] were prep'd. from o-chlorobenzoic acids by sequential substitution with anilines, conversion to the piperides, cyclization by POCl<sub>3</sub> to 9-chloroacridines, substitution by (hydroxyalkyl)anilines and optional conversion to carbamates.

IT 56980-14-4P 135753-41-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and conversion to piperide)

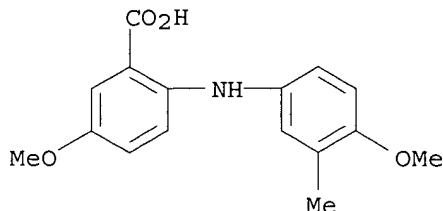
RN 56980-14-4 CAPLUS

CN Benzoic acid, 5-methoxy-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



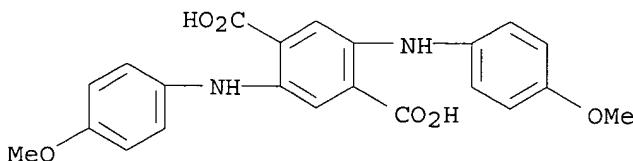
RN 135753-41-2 CAPLUS

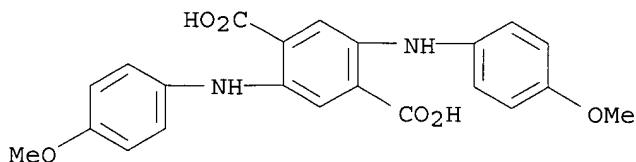
CN Benzoic acid, 5-methoxy-2-[(4-methoxy-3-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1991:6021 CAPLUS  
 DOCUMENT NUMBER: 114:6021  
 TITLE: Preparation of 2,5-diarylaminoterephthalic acids  
 INVENTOR(S): Schuetze, Detlef Ingo; Schmitz, Reinold  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 8 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

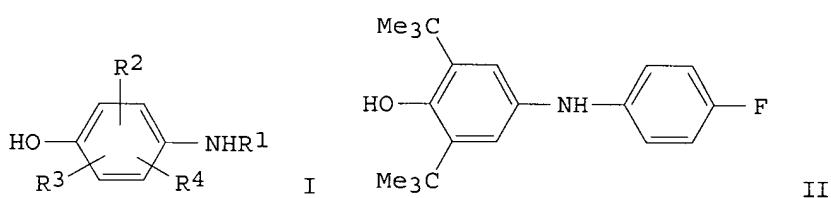
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 363756	A2	19900418	EP 1989-118109	19890929 <--
EP 363756	A3	19910327		
EP 363756	B1	19921202		
R: CH, DE, FR, GB, LI				
DE 3834747	A1	19900503	DE 1988-3834747	19881012 <--
US 4981997	A	19910101	US 1989-414825	19890929 <--
JP 02169556	A2	19900629	JP 1989-264105	19891012 <--
JP 2882535	B2	19990412		
DE 1988-3834747 19881012				
OTHER SOURCE(S): CASREACT 114:6021; MARPAT 114:6021				
<b>AB</b> The title compds., which are useful as intermediates in the prodn. of violet or red quinacridone pigments, are prep'd. by oxidn. of 2,5-diarylaminoterephthalic acid esters with O or O-contg. gases, preferably air, in alc. alk. or alc. aq. alk. soln. or suspension in the presence of an O-transporting agent and a quaternary ammonium compd. Thus, 2,5-dianilinoterephthalic acid (I) was prep'd. by passing air through a suspension contg. di-Et 2,5-dianilinoterephthalate, 14% aq. NaOH, anthraquinone-2-sulfonic acid, dodecylbenzyldimethylammonium chloride, and MeOH. The yield of I was 99%.				
IT 41680-75-5P	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as intermediate for quinone pigments)			
RN 41680-75-5 CAPLUS				
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)				





L7 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1988:510014 CAPLUS  
 DOCUMENT NUMBER: 109:110014  
 TITLE: Antiinflammatory and lipoxygenase-inhibiting  
 4-(phenylamino)phenols, their formulations, and a  
 process for their preparation  
 INVENTOR(S): Hashimoto, Kinji; Goto, Kiyoto; Kanai, Kenichi; Tsuda,  
 Yoshiaki  
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Factory, Inc., Japan  
 SOURCE: Eur. Pat. Appl., 78 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 263229	A1	19880413	EP 1987-101109	19870127 <--
R: CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 63083052	A2	19880413	JP 1986-230484	19860929 <--
JP 06010174	B4	19940209		
US 4906662	A	19900306	US 1987-7044	19870127 <--
US 4906662	B1	19920714	US 1991-90002376	19910624 <--
PRIORITY APPLN. INFO.:			JP 1986-230484	19860929
			US 1987-7044	19870127
OTHER SOURCE(S): GI		CASREACT 109:110014; MARPAT 109:110014		

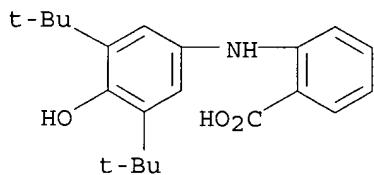


AB (Phenylamino)phenols I [R1 = (un)substituted Ph; R2, R3 = C1-6 alkyl; R4 = H, C1-6 alkyl; R3R4 = (CH2)4] are prep'd. as antiinflammatory agents and lipoxygenase inhibitors. A soln. of 2,6-di-tert-butyl-1,4-benzoquinone, p-FC6H4NH2, and BF3.Et2O in THF was refluxed for 6 h, cooled, dild. with H2O, and treated with aq. Na2S2O4 at room temp. to give di-tert-butyl (fluorophenylamino)phenol II. In the carrageenin-induced rat paw edema test, II gave 57% inhibition at 100 mg/kg orally (cf. 62% by indomethacin at 5 mg/kg). An injectable soln. in a 5-mL ampul contained 200 mg of a I compd. and 250 mg glucose in H2O under N.  
 IT 107858-23-1P 110647-69-3P 110647-70-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as antiinflammatory and/or lipoxygenase inhibitor)

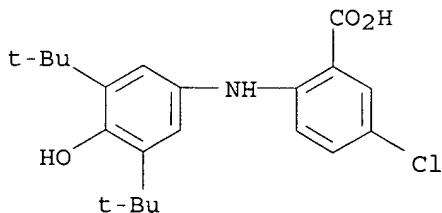
RN 107858-23-1 CAPLUS

CN Benzoic acid, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]amino]- (9CI)  
(CA INDEX NAME)



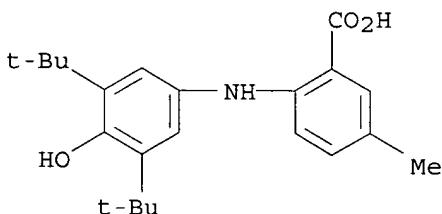
RN 110647-69-3 CAPLUS

CN Benzoic acid, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]amino]-5-chloro- (9CI) (CA INDEX NAME)



RN 110647-70-6 CAPLUS

CN Benzoic acid, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]amino]-5-methyl- (9CI) (CA INDEX NAME)



L7 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:196034 CAPLUS

DOCUMENT NUMBER: 106:196034

TITLE: Arylamino-substituted-di-t-butylphenols as drugs

INVENTOR(S): Scherrer, Robert A.

PATENT ASSIGNEE(S): Riker Laboratories, Inc., USA

SOURCE: Eur. Pat. Appl., 45 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

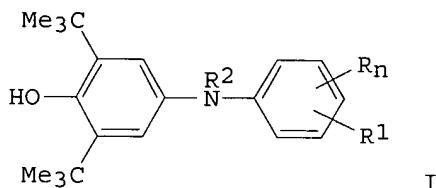
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 212848	A2	19870304	EP 1986-305515	19860717 <--
EP 212848	A3	19871216		
EP 212848	B1	19901205		
	R: BE, CH, DE, FR, GB, IT, LI, NL, SE			
ZA 8605090	A	19880224	ZA 1986-5090	19860708 <--
IL 79376	A1	19910512	IL 1986-79376	19860709 <--
IL 94750	A1	19910512	IL 1986-94750	19860709 <--
IL 94751	A1	19910512	IL 1986-94751	19860709 <--
AU 8660085	A1	19870129	AU 1986-60085	19860711 <--
AU 585626	B2	19890622		
DK 8603447	A	19870123	DK 1986-3447	19860721 <--
DK 170666	B1	19951127		
NO 8602924	A	19870123	NO 1986-2924	19860721 <--
NO 172230	B	19930315		
NO 172230	C	19930623		
ES 2000368	A6	19880216	ES 1986-457	19860722 <--
JP 63045243	A2	19880226	JP 1986-172657	19860722 <--
JP 06067884	B4	19940831		
CA 1283419	A1	19910423	CA 1986-514378	19860722 <--
CA 1295336	A2	19920204	CA 1990-615810	19900808 <--
CA 1295337	A2	19920204	CA 1990-615811	19900808 <--
CA 1333618	A1	19941220	CA 1990-615812	19900808 <--
US 5237070	A	19930817	US 1991-701676	19910516 <--
JP 07053485	A2	19950228	JP 1994-41142	19940311 <--
JP 2515486	B2	19960710		
US 5495043	A	19960227	US 1995-435585	19950505 <--
US 5498745	A	19960312	US 1995-435582	19950505 <--
US 5527824	A	19960618	US 1995-437143	19950505 <--
PRIORITY APPLN. INFO.:			US 1985-757358	19850722
			US 1986-879365	19860627
			IL 1986-79376	19860709
			CA 1986-514378	19860722
			US 1994-263390	19940622

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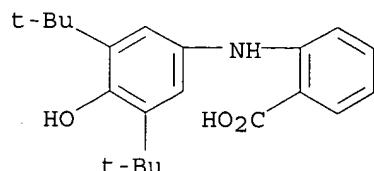


AB The title compds. [I; R = H, alkyl, alkoxy, alkylthio, halo, (di)(alkyl)amino, acylamido, OH; R1 = (modified) carboxylate, carboxyalkyl, tetrazolyl, etc.; R2 = H, alkyl, acetyl, trifluoroacetyl; n = 0-2] were prep'd. as lipoxygenase inhibitors. 2,6-Di(tert-butyl)-p-benzoquinone was refluxed with 3-H2NC6H4CO2H and BF3.Et2O in THF to give an iminoquinone, which was hydrogenated over Pd/C to give 3-[3,5-di-(tert-butyl)-4-hydroxyanilino]benzoic acid (II). II was an effective bronchodilator in the small airways of guinea pigs.

IT 107858-23-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as leukotriene synthesis inhibitor)

RN 107858-23-1 CAPLUS

CN Benzoic acid, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]amino]- (9CI)  
(CA INDEX NAME)

L7 ANSWER 18 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1986:109221 CAPLUS

DOCUMENT NUMBER: 104:109221

TITLE: Substituted aminophenyl alkyl ketones and their use

INVENTOR(S): Bailey, Denis M.

PATENT ASSIGNEE(S): Sterling Drug, Inc., USA

SOURCE: U.S., 6 pp.

CODEN: USXXAM

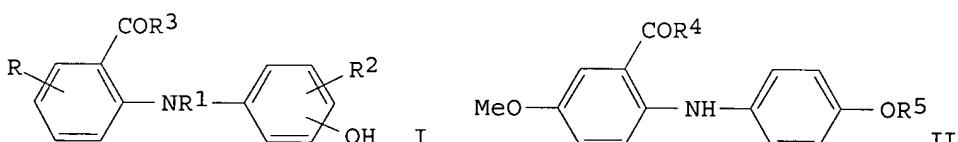
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4539429	A	19850903	US 1983-512791	19830711 <--
PRIORITY APPLN. INFO.:			US 1983-512791	19830711
OTHER SOURCE(S):		CASREACT 104:109221		
GI				



AB Hydroxyphenylaminophenylalkanones I ( $R = H$ , alkyl, alkoxy, halo;  $R1 = H$ , alkyl;  $R2 = H$ , alkyl, halo;  $R3 = \text{alkyl}$ ) were prepd. as antiasthmatics. Thus, 31 g 2,5-Br(MeO)C<sub>6</sub>H<sub>3</sub>CO<sub>2</sub>H and 262 g 4-PhCH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>.HCl reacted in the presence of K<sub>2</sub>CO<sub>3</sub> and powd. Cu to give 245 g acid II ( $R4 = OH$ ,  $R5 = CH_2Ph$ ), which (25.49 g) reacted with excess MeLi to give 16.1 g ketone II ( $R4 = Me$ ,  $R5 = CH_2Ph$ ). Hydrogenolysis of the latter compd. (9 g) gave 5.33 g III ( $R4 = Me$ ,  $R5 = H$ ) (III). At 1 .mu.M in an homogenized suspension of rat basophilic leukemia cells, III gave 36% and 88% inhibition of cyclooxygenase and lipoxygenase, resp.

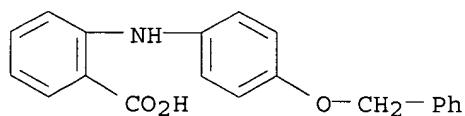
IT 21971-19-7P 54197-69-2P 98156-62-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

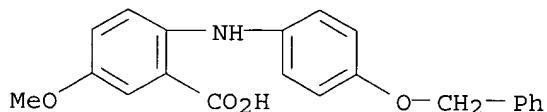
(prepn. and reaction of, with methyllithium)

RN 21971-19-7 CAPLUS

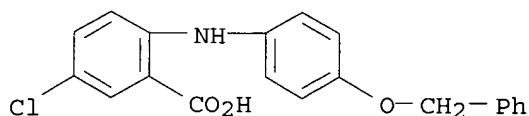
CN Benzoic acid, 2-[[4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)



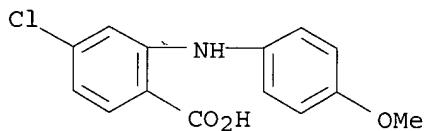
RN 54197-69-2 CAPLUS  
 CN Benzoic acid, 5-methoxy-2-[(4-(phenylmethoxy)phenyl)amino]- (9CI) (CA INDEX NAME)



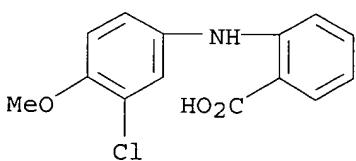
RN 98156-62-8 CAPLUS  
 CN Benzoic acid, 5-chloro-2-[(4-(phenylmethoxy)phenyl)amino]- (9CI) (CA INDEX NAME)



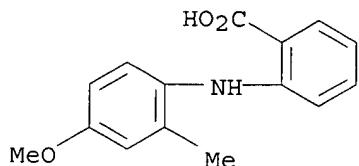
IT 91-38-3P 94631-72-8P 94631-74-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 91-38-3 CAPLUS  
 CN Benzoic acid, 4-chloro-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 94631-72-8 CAPLUS  
 CN Benzoic acid, 2-[(3-chloro-4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

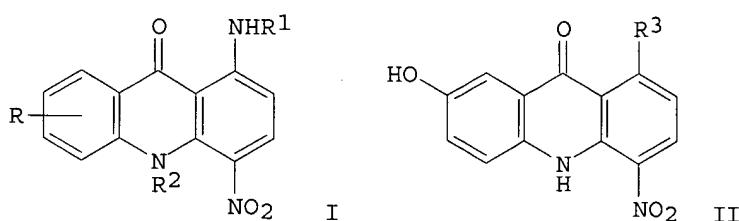


RN 94631-74-0 CAPLUS  
 CN Benzoic acid, 2-[(4-methoxy-2-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 19 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1985:615182 CAPLUS  
 DOCUMENT NUMBER: 103:215182  
 TITLE: Substituted 1-amino-4-nitroacridinones and pharmaceutical compositions comprising them  
 INVENTOR(S): Capps, David Bridgeman  
 PATENT ASSIGNEE(S): Warner-Lambert Co. , USA  
 SOURCE: Eur. Pat. Appl., 56 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

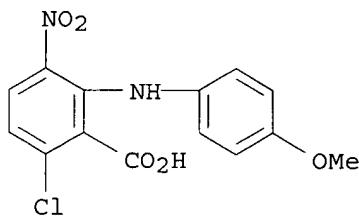
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 145226	A2	19850619	EP 1984-307491	19841031 <--
EP 145226	A3	19850710		
EP 145226	B1	19881005		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4626540	A	19861202	US 1984-658100	19841010 <--
CA 1258856	A1	19890829	CA 1984-466109	19841023 <--
AT 37713	E	19881015	AT 1984-307491	19841031 <--
AU 8435131	A1	19850516	AU 1984-35131	19841106 <--
AU 573639	B2	19880616		
DK 8405294	A	19850509	DK 1984-5294	19841107 <--
JP 60136567	A2	19850720	JP 1984-233386	19841107 <--
ES 537440	A1	19851216	ES 1984-537440	19841107 <--
PRIORITY APPLN. INFO.:				
		US 1983-549709	19831108	
		US 1984-658100	19841010	
		EP 1984-307491	19841031	
OTHER SOURCE(S): GI	CASREACT 103:215182			



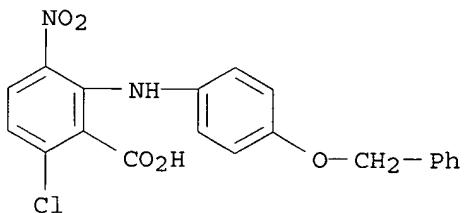
AB Acridones I [R = H, OH, Cl, alkoxy, alkoxy carbonyloxy, alkanoyloxy, alkyl (un)substituted amino; R1 = aminoalkyl, piperidinoalkyl, pyrrolidinoalkyl, aminoalkyl-N-oxide; R2 = H, alkyl], useful as bactericides and antitumor agents, were prep'd. Thus, chloroacridone II (R3 = Cl) was treated with

Me<sub>2</sub>N(CH<sub>2</sub>)<sub>3</sub>NH<sub>2</sub> to give II [R<sub>3</sub> = NH(CH<sub>2</sub>)<sub>3</sub>NMe<sub>2</sub>] (III). At 6.25 mg/kg i.p. daily for 5 days in mice, III increased the survival time 234% over untreated controls.

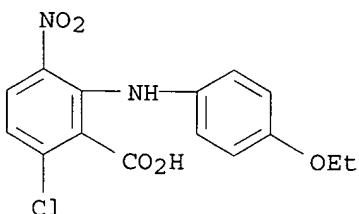
IT 55776-09-5P 99009-51-5P 99009-56-0P  
 99009-58-2P 99009-60-6P 99009-70-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and cyclization of, acridinone by)  
 RN 55776-09-5 CAPPLUS  
 CN Benzoic acid, 6-chloro-2-[(4-methoxyphenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)



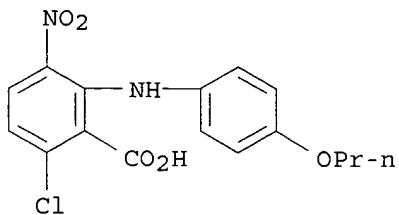
RN 99009-51-5 CAPPLUS  
 CN Benzoic acid, 6-chloro-3-nitro-2-[(4-(phenylmethoxy)phenyl)amino]- (9CI) (CA INDEX NAME)



RN 99009-56-0 CAPPLUS  
 CN Benzoic acid, 6-chloro-2-[(4-ethoxyphenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)

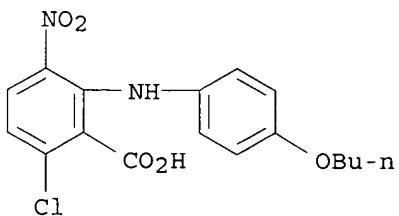


RN 99009-58-2 CAPPLUS  
 CN Benzoic acid, 6-chloro-3-nitro-2-[(4-propoxyphenyl)amino]- (9CI) (CA INDEX NAME)



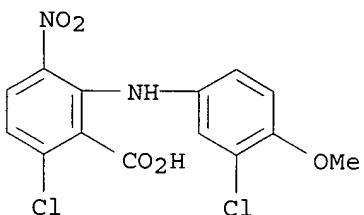
RN 99009-60-6 CAPLUS

CN Benzoic acid, 2-[(4-butoxyphenyl)amino]-6-chloro-3-nitro- (9CI) (CA INDEX NAME)



RN 99009-70-8 CAPLUS

CN Benzoic acid, 6-chloro-2-[(3-chloro-4-methoxyphenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)



L7 ANSWER 20 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:596074 CAPLUS

DOCUMENT NUMBER: 103:196074

TITLE: Pyrazolo[3,4,5-kl]acridine compounds and pharmaceutical compositions comprising them

Capps, David B.

INVENTOR(S): Warner-Lambert Co., USA

PATENT ASSIGNEE(S): Eur. Pat. Appl., 102 pp.

SOURCE: CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 138302	A1	19850424	EP 1984-304784	19840713 <--
EP 138302	B1	19880309		

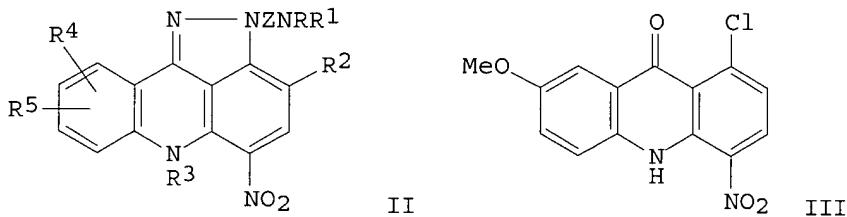
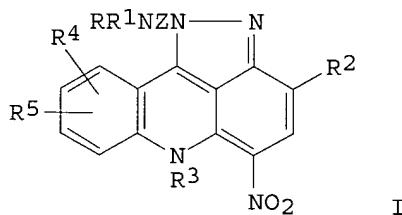
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE

US 4555572	A	19851126	US 1984-619258	19840615 <--
CA 1271476	A1	19900710	CA 1984-457484	19840626 <--
AU 8430564	A1	19850124	AU 1984-30564	19840713 <--
AU 569532	B2	19880204		
AT 32897	E	19880315	AT 1984-304784	19840713 <--
DK 8403514	A	19850120	DK 1984-3514	19840718 <--
DK 161384	B	19910701		
DK 161384	C	19920106		
JP 60069084	A2	19850419	JP 1984-147733	19840718 <--
JP 05059916	B4	19930901		
ES 534414	A1	19861201	ES 1984-534414	19840718 <--
US 4588730	A	19860513	US 1985-768310	19850822 <--
ES 550774	A1	19870216	ES 1986-550774	19860110 <--
ES 550775	A1	19870216	ES 1986-550775	19860110 <--
ES 550776	A1	19870301	ES 1986-550776	19860110 <--
ES 550777	A1	19870301	ES 1986-550777	19860110 <--
US 4621086	A	19861104	US 1986-821318	19860122 <--
JP 06041127	A2	19940215	JP 1993-82422	19930318 <--
JP 07030076	B4	19950405		

PRIORITY APPLN. INFO.:

US 1983-515125	19830719
US 1984-619258	19840615
US 1983-545125	19830719
EP 1984-304784	19840713
US 1985-768310	19850822

OTHER SOURCE(S) : CASREACT 103:196074  
GI



AB The title compds. [I and II; R, R1 = H, alkyl, hydroxyalkyl; RR1N = piperidino, pyrrolidino; R2 = H, NO2; R3 = H, alkyl; R4, R5 = H, alkyl, amino, trialkylsilyloxy, OH, esterified OH, (un)substituted alkoxy, PhCH2O; Z = alkylene] were prep'd. Thus, 2,6,3-C12(O2N)C6H2CO2H was treated with 4-MeOC6H4NH2 to give 79% 6,3,2-C12(O2N)(4-MeOC6H4NH)C6H2CO2H. This was cyclized by refluxing in PhCl/POCl3 to give 95% acridinone III, which was cyclocondensed with Et2NCH2CH2NHNH2 to give 79% II (R = R1 = Et, R2-R4 = H, R5 = 9-MeO, Z = CH2CH2) (IV). Mice infected with lymphocytic

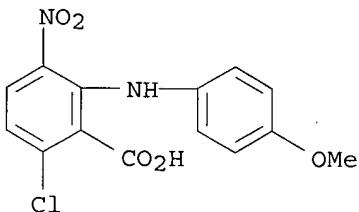
leukemia P388 and administered 50 mg IV/kg/day i.p. for 5 days had a life span 167% that of the controls.

IT 55776-09-5P 99009-51-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and chlorination-cyclization of)

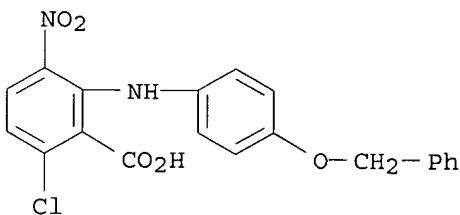
RN 55776-09-5 CAPLUS

CN Benzoic acid, 6-chloro-2-[(4-methoxyphenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)



RN 99009-51-5 CAPLUS

CN Benzoic acid, 6-chloro-3-nitro-2-[(4-(phenylmethoxy)phenyl)amino]- (9CI) (CA INDEX NAME)



IT 99009-56-0P 99009-58-2P 99009-60-6P

99009-62-8P 99009-64-0P 99009-66-2P

99009-70-8P 99009-77-5P 99009-79-7P

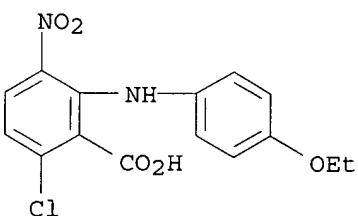
99009-81-1P 99009-83-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and cyclization of)

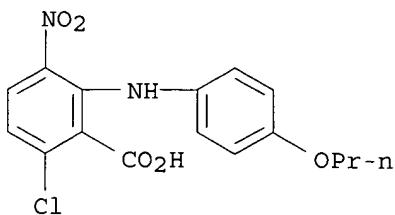
RN 99009-56-0 CAPLUS

CN Benzoic acid, 6-chloro-2-[(4-ethoxyphenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)



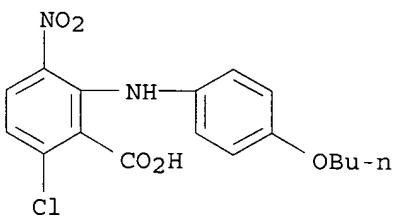
RN 99009-58-2 CAPLUS

CN Benzoic acid, 6-chloro-3-nitro-2-[(4-propoxypyhenyl)amino]- (9CI) (CA INDEX NAME)



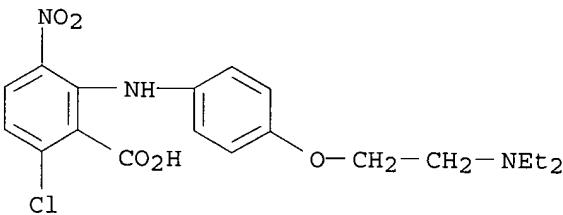
RN 99009-60-6 CAPLUS

CN Benzoic acid, 2-[(4-butoxyphenyl)amino]-6-chloro-3-nitro- (9CI) (CA INDEX NAME)



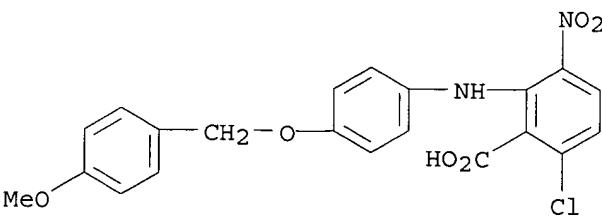
RN 99009-62-8 CAPLUS

CN Benzoic acid, 6-chloro-2-[(4-[2-(diethylamino)ethoxy]phenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)

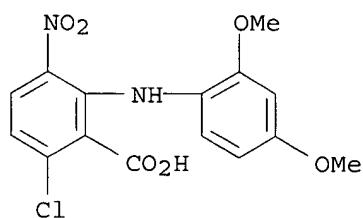


RN 99009-64-0 CAPLUS

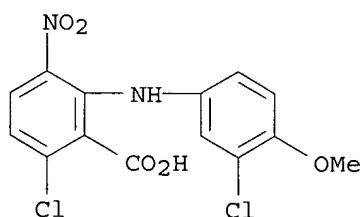
CN Benzoic acid, 6-chloro-2-[(4-[(4-methoxyphenyl)methoxy]phenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)



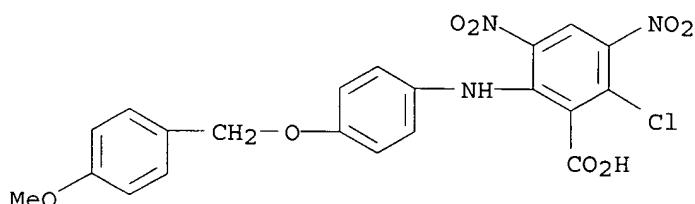
RN 99009-66-2 CAPLUS  
 CN Benzoic acid, 6-chloro-2-[(2,4-dimethoxyphenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)



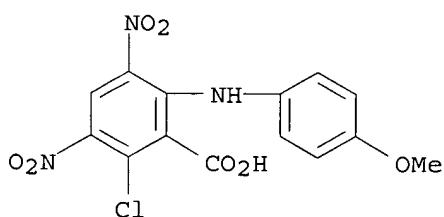
RN 99009-70-8 CAPLUS  
 CN Benzoic acid, 6-chloro-2-[(3-chloro-4-methoxyphenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)



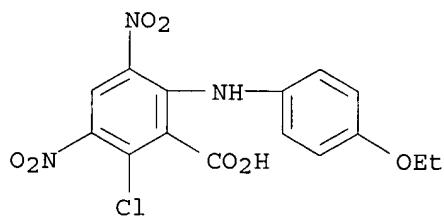
RN 99009-77-5 CAPLUS  
 CN Benzoic acid, 2-chloro-6-[(4-[(4-methoxyphenyl)methoxy]phenyl)amino]-3,5-dinitro- (9CI) (CA INDEX NAME)



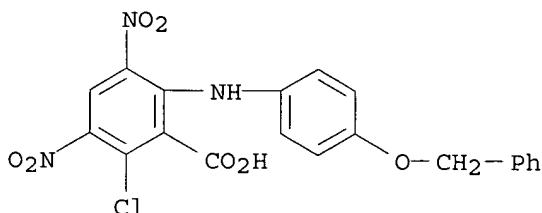
RN 99009-79-7 CAPLUS  
 CN Benzoic acid, 2-chloro-6-[(4-methoxyphenyl)amino]-3,5-dinitro- (9CI) (CA INDEX NAME)



RN 99009-81-1 CAPLUS  
 CN Benzoic acid, 2-chloro-6-[(4-ethoxyphenyl)amino]-3,5-dinitro- (9CI) (CA INDEX NAME)

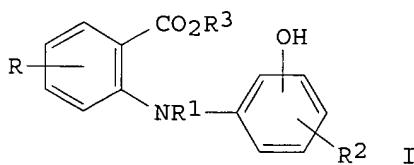


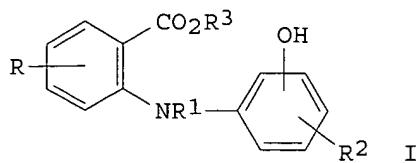
RN 99009-83-3 CAPLUS  
 CN Benzoic acid, 2-chloro-3,5-dinitro-6-[[4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 21 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1985:523174 CAPLUS  
 DOCUMENT NUMBER: 103:123174  
 TITLE: Substituted aminobenzoates and their use  
 INVENTOR(S): Bailey, Denis M.  
 PATENT ASSIGNEE(S): Sterling Drug, Inc., USA  
 SOURCE: U.S., 6 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4515980	A	19850507	US 1983-512843	19830711 <--
US 4629735	A	19861216	US 1985-691823	19850116 <--
PRIORITY APPLN. INFO.:			US 1983-512843	19830711
OTHER SOURCE(S):		CASREACT 103:123174		
GI				





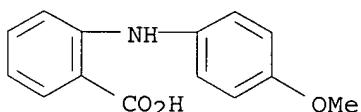
AB The lipoxygenase inhibiting aminobenzoate I (R = alkoxy; R1 = H, alkyl; R2 = H, alkyl, halo, R3 = alkyl) were prep'd. as antiasthmatic agents. Thus, o-MeOC6H4NHC6H4CO2H-*o*, prep'd. from o-C1C6H4CO2H and o-MeOC6H4NH2, was treated with Cl2CO to give N-(2-methoxyphenyl)isatoic anhydride, which was cleaved by Et2Zn and the resulting o-MeOC4H4NHC4H4CO2Et-*o* demethylated by BBr3 to give I (R-R2 = H, R3 = Et, OH in 2-position) (II). II inhibited in vitro lipoxygenase formation by 95%.

IT 13501-67-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of, with phosgene)

RN 13501-67-2 CAPLUS

CN Benzoic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

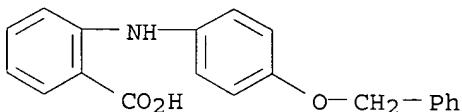


IT 21971-19-7

RL: RCT (Reactant); RACT (Reactant or reagent)  
(hydrogenation of)

RN 21971-19-7 CAPLUS

CN Benzoic acid, 2-[[4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)

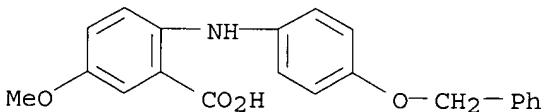


IT 54197-69-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and cyclization with phosgene)

RN 54197-69-2 CAPLUS

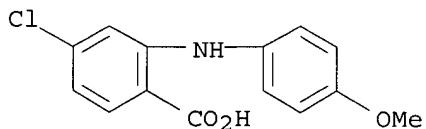
CN Benzoic acid, 5-methoxy-2-[[4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)



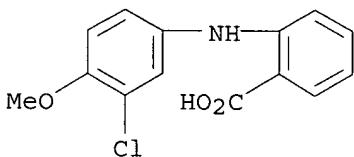
IT 91-38-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

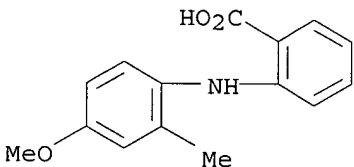
(prepn. and demethylation of)  
 RN 91-38-3 CAPLUS  
 CN Benzoic acid, 4-chloro-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



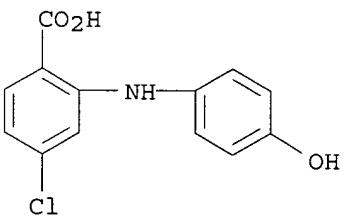
IT 94631-72-8P 94631-74-0P 94631-92-2P  
 98156-62-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and esterification of)  
 RN 94631-72-8 CAPLUS  
 CN Benzoic acid, 2-[(3-chloro-4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



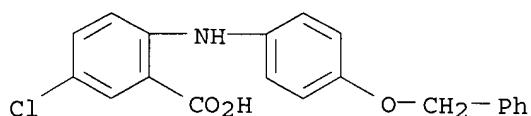
RN 94631-74-0 CAPLUS  
 CN Benzoic acid, 2-[(4-methoxy-2-methylphenyl)amino]- (9CI) (CA INDEX NAME)



RN 94631-92-2 CAPLUS  
 CN Benzoic acid, 4-chloro-2-[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 98156-62-8 CAPLUS  
 CN Benzoic acid, 5-chloro-2-[(4-phenylmethoxyphenyl)amino]- (9CI) (CA INDEX NAME)

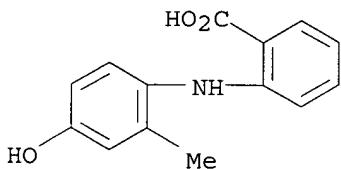


IT 56511-72-9P 94631-84-2P 98156-55-9P  
98156-58-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

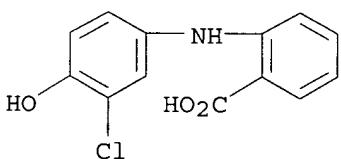
RN 56511-72-9 CAPLUS

CN Benzoic acid, 2-[(4-hydroxy-2-methylphenyl)amino]- (9CI) (CA INDEX NAME)



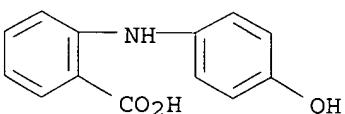
RN 94631-84-2 CAPLUS

CN Benzoic acid, 2-[(3-chloro-4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



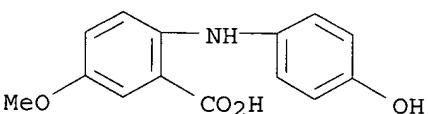
RN 98156-55-9 CAPLUS

CN Benzoic acid, 2-[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 98156-58-2 CAPLUS

CN Benzoic acid, 2-[(4-hydroxyphenyl)amino]-5-methoxy- (9CI) (CA INDEX NAME)



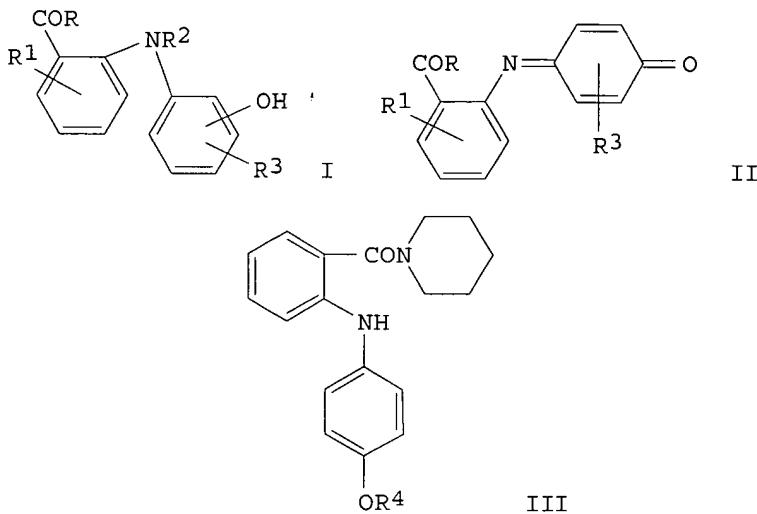
L7 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:471072 CAPLUS

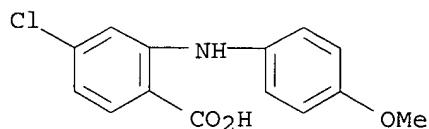
DOCUMENT NUMBER: 103:71072

TITLE: Substituted aminobenzamides and their use as agents which inhibit lipoxygenase activity  
 INVENTOR(S): Bailey, Denis M.  
 PATENT ASSIGNEE(S): Sterling Drug, Inc., USA  
 SOURCE: U.S., 9 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4510139	A	19850409	US 1984-568870	19840106 <--
US 4549016	A	19851022	US 1985-690013	19850109 <--
PRIORITY APPLN. INFO.:			US 1984-568870	19840106
OTHER SOURCE(S):		CASREACT 103:71072		
GI				

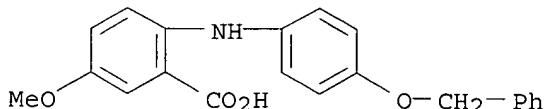


- AB Title compds. I and II [R = NH<sub>2</sub>, (di)alkylamino, NHCH<sub>2</sub>Ph, (un)alkylated cycloalkylamino, pyrrolidino, piperidino, morpholino; R<sub>1</sub> = H, halo, alkyl, alkoxy; R<sub>2</sub> = H, alkyl; R<sub>3</sub> = H, alkyl, halo] were prep'd. Thus, 2-ClC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H was aminated by 4-MeOC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub> to give 4-MeOC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H-2 (V). V was treated with EtO<sub>2</sub>CCl to give the cyclic amide, which reacted with piperidine to form anilinobenzoylpyridine III (R<sub>4</sub> = Me). This was demethylated with BBr<sub>3</sub> to give III (R = H) (IV). IV gave 48% inhibition of immunol.-induced bronchoconstriction in guinea pigs at 0.1 mg/kg i.v. (the highest sol. dose).  
 IT 91-38-3P 54197-69-2P 76206-20-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and anhydride formation from)  
 RN 91-38-3 CAPLUS  
 CN Benzoic acid, 4-chloro-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



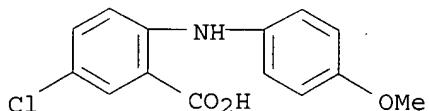
RN 54197-69-2 CAPLUS

CN Benzoic acid, 5-methoxy-2-[(4-(phenylmethoxy)phenyl)amino]- (9CI) (CA INDEX NAME)



RN 76206-20-7 CAPLUS

CN Benzoic acid, 5-chloro-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



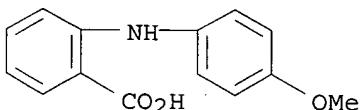
IT 13501-67-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and cyclization of)

RN 13501-67-2 CAPLUS

CN Benzoic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

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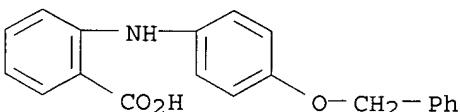


IT 21971-19-7P 94631-72-8P 94631-74-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

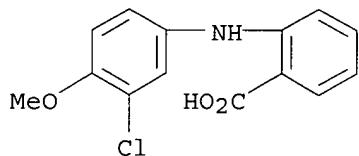
RN 21971-19-7 CAPLUS

CN Benzoic acid, 2-[(4-(phenylmethoxy)phenyl)amino]- (9CI) (CA INDEX NAME)

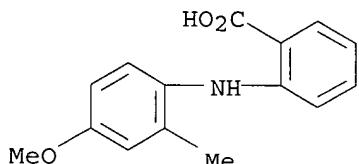


RN 94631-72-8 CAPLUS

CN Benzoic acid, 2-[(3-chloro-4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

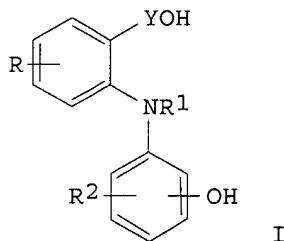


RN 94631-74-0 CAPLUS  
 CN Benzoic acid, 2-[(4-methoxy-2-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1985:78545 CAPLUS  
 DOCUMENT NUMBER: 102:78545  
 TITLE: Phenylaminobenzenealkanols  
 INVENTOR(S): Schlegel, Donald Charles; Bell, Malcolm Rice  
 PATENT ASSIGNEE(S): Sterling Drug, Inc., USA  
 SOURCE: Eur. Pat. Appl., 26 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 122518	A1	19841024	EP 1984-103379	19840327 <--
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
US 4496590	A	19850129	US 1983-485936	19830418 <--
ZA 8402202	A	19841031	ZA 1984-2202	19840326 <--
AU 8426363	A1	19841025	AU 1984-26363	19840403 <--
NO 8401426	A	19841019	NO 1984-1426	19840410 <--
FI 8401433	A	19841019	FI 1984-1433	19840411 <--
ES 531550	A1	19851201	ES 1984-531550	19840412 <--
DK 8401919	A	19841019	DK 1984-1919	19840413 <--
JP 60034934	A2	19850222	JP 1984-75684	19840413 <--
PRIORITY APPLN. INFO.: US 1983-485936 19830418				
OTHER SOURCE(S): CASREACT 102:78545				
GI				



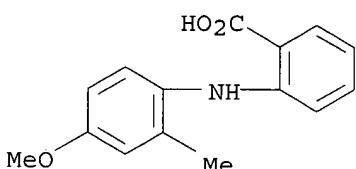
AB Several title compds. I ( $R = H$ , alkyl, alkoxy, halo;  $R1 = H$ , alkyl;  $R2 = H$ , alkyl, halo;  $Y = CnH2n$  with  $n = 1, 2$ ), antiasthmatics, were prep'd. Thus,  $2,5-Br(MeO)C6H3CO2H$ ,  $4-PhCH2OC6H4NH2$ .cntdot.HCl,  $K2CO3$ , and activated Cu powder were refluxed in amyl alc. for 4.5 h to give  $2-(4-benzyloxyphenylamino)-5-methoxybenzoic acid$ . The last was reduced with  $LiAlH4$ , then hydrogenolyzed in the presence of Pd/C to give I ( $R = 5-MeO$ ,  $R1 = R2 = H$ ,  $Y = CH2$ , OH at the 4-position) (II). Compds. of structure I inhibited lipoxygenase activity in biol. systems and acted as antiasthmatic agents. Thus, the E.D.50 of II in guinea pigs was 0.13 mg/kg.

IT 94631-74-0

RL: RCT (Reactant); RACT (Reactant or reagent)  
(demethylation of)

RN 94631-74-0 CAPLUS

CN Benzoic acid, 2-[(4-methoxy-2-methylphenyl)amino]- (9CI) (CA INDEX NAME)

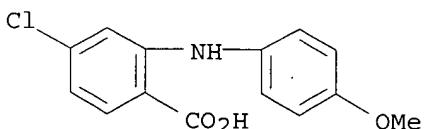


IT 91-38-3P 76206-20-7P 94631-72-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and deetherification of)

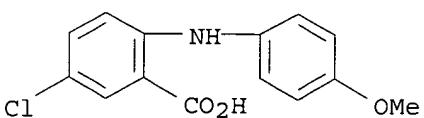
RN 91-38-3 CAPLUS

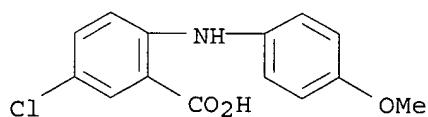
CN Benzoic acid, 4-chloro-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



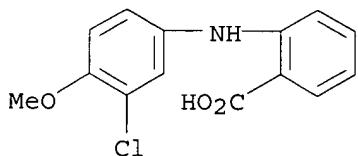
RN 76206-20-7 CAPLUS

CN Benzoic acid, 5-chloro-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

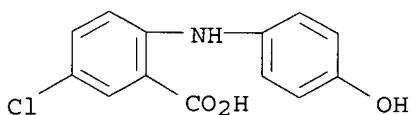




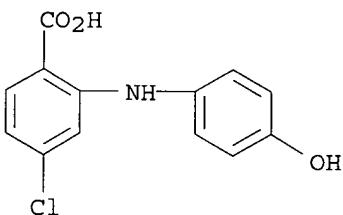
RN 94631-72-8 CAPLUS  
 CN Benzoic acid, 2-[(3-chloro-4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



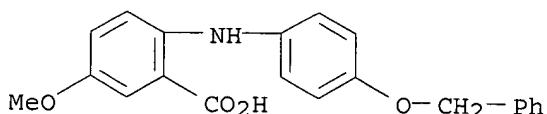
IT 94631-89-7P 94631-92-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and hydride redn. of)  
 RN 94631-89-7 CAPLUS  
 CN Benzoic acid, 5-chloro-2-[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)

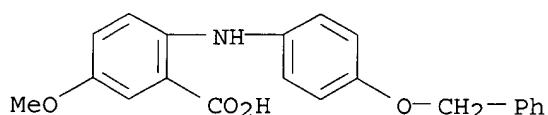


RN 94631-92-2 CAPLUS  
 CN Benzoic acid, 4-chloro-2-[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



IT 54197-69-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and reaction of)  
 RN 54197-69-2 CAPLUS  
 CN Benzoic acid, 5-methoxy-2-[(4-(phenylmethoxy)phenyl)amino]- (9CI) (CA INDEX NAME)



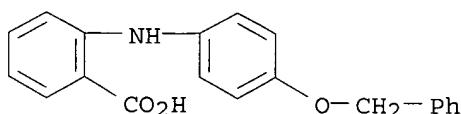


IT 21971-19-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and reactions of)

RN 21971-19-7 CAPLUS

CN Benzoic acid, 2-[(4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)

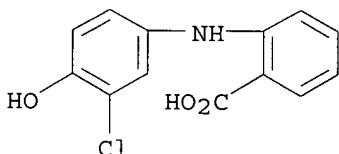


IT 94631-84-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and redn. of)

RN 94631-84-2 CAPLUS

CN Benzoic acid, 2-[(3-chloro-4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)

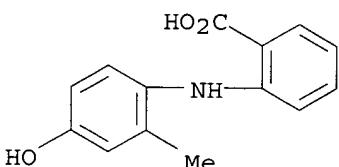


IT 56511-72-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 56511-72-9 CAPLUS

CN Benzoic acid, 2-[(4-hydroxy-2-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 24 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1984:138978 CAPLUS

DOCUMENT NUMBER: 100:138978

TITLE: Acridinecarboxamide compounds

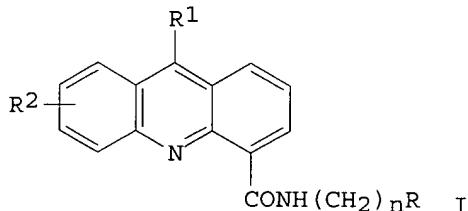
INVENTOR(S): Atwell, Graham John; Baguley, Bruce Charles; Denny, William Alexander; Newcastle, Gordon William

PATENT ASSIGNEE(S): Development Finance Corp. of New Zealand, N. Z.

SOURCE: Eur. Pat. Appl., 49 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 98098	A2	19840111	EP 1983-303610	19830622 <--
EP 98098	A3	19850502		
EP 98098	B1	19890208		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4590277	A	19860520	US 1983-506335	19830621 <--
JP 59007171	A2	19840114	JP 1983-112595	19830622 <--
AT 40688	E	19890215	AT 1983-303610	19830622 <--
PRIORITY APPLN. INFO.:				
NZ 1982-201084 19820625				
EP 1983-303610 19830622				

GI



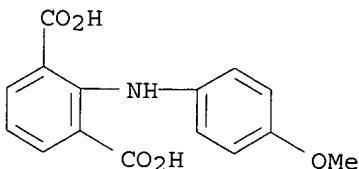
AB Acridinecarboxamides I [R = amino, C(:NH)NH2, NHC(:NH)NH2; R1 = H, Me, amino; R2 = H, Me, OMe, halogen, CF3, NO2, NH2, NHAc, NHCO2Me; n = 2-6] were prep'd. Thus 2-ClC6H4CO2H was treated with 2-H2NC6H4CO2H to give (2-HO2CC6H4)2NH which was cyclized with acid to 9-oxo-10H-acridine-4-carboxylic acid (II). Chlorination of II gave 9-chloroacridine-4-carbamyl chloride which was treated with Me2NCH2CH2NH2 to give I (R = NMe2, R1 = Cl, R2 = H, n = 2, III). III was treated with PhOH and NH3 to give I (R = NMe2, R1 = NH2, R2 = H, n = 2), of which had an optimal dose against leukemia P388 in mice of 4.5 mg/kg.

IT 89459-40-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and cyclization of)

RN 89459-40-5 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 25 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1984:103383 CAPLUS  
 DOCUMENT NUMBER: 100:103383  
 TITLE: Quinazolinone derivatives and their use in pharmaceuticals  
 INVENTOR(S): Opitz, Wolfgang; Jacobi, Haireddin; Pelster, Bernhard  
 PATENT ASSIGNEE(S): Troponwerke G.m.b.H. und Co. K.-G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 27 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3220438	A1	19831201	DE 1982-3220438	19820529 <--
US 4539402	A	19850903	US 1983-492775	19830509 <--
EP 95641	A1	19831207	EP 1983-104794	19830516 <--
EP 95641	B1	19870729		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 28647	E	19870815	AT 1983-104794	19830516 <--
JP 59042385	A2	19840308	JP 1983-92639	19830527 <--
PRIORITY APPLN. INFO.:			DE 1982-3220438	19820529
			EP 1983-104794	19830516

OTHER SOURCE(S): CASREACT 100:103383

GI For diagram(s), see printed CA Issue.

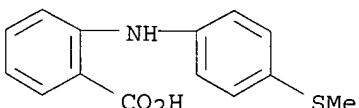
AB Title compds. I [Z forms an unsubstituted imidazo, dihydroimidazo, dihydropyrimido, or benzimidazo ring(s); R = haloalkyl, alkylthio, alkylsulfinyl, alkylsulfonyl, NO<sub>2</sub>, (un)substituted amino] were prep'd. and had antiphlogistic and analgesic activity. Thus, 2-(3-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NH)C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H was treated with PCl<sub>5</sub>, then 2-methylthio-2-imidazoline to give the dihydroimidazoquinazolinone II, which had an ED<sub>50</sub> of 1.3 mg/kg against carrageenan-induced edema and an ED<sub>50</sub> of 0.5 mg/kg as a sedative.

IT 35958-19-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with phosphorus pentachloride)

RN 35958-19-1 CAPLUS

CN Benzoic acid, 2-[[4-(methylthio)phenyl]amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 26 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1982:411857 CAPLUS  
 DOCUMENT NUMBER: 97:11857  
 TITLE: Agent for treating peptic ulcers  
 INVENTOR(S): Tanemura, M.; Yamazaki, T.; Mizuno, K.; Kaiho, S.; Kakimoto, M.; Hoshino, E.; Matsunaga, I.; Hata, S.  
 PATENT ASSIGNEE(S): Chugai Pharmaceutical Co., Ltd., Japan  
 SOURCE: Belg., 14 pp.  
 CODEN: BEXXAL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French

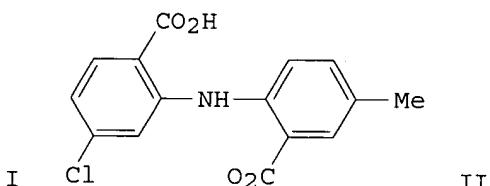
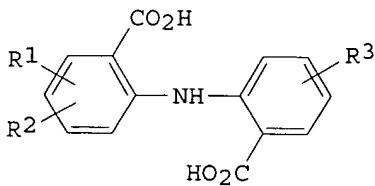
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 891278	A1	19820316	BE 1981-206680	19811127 <--
JP 57091914	A2	19820608	JP 1980-166662	19801128 <--
US 4447453	A	19840508	US 1981-322182	19811117 <--
ZA 8108066	A	19821124	ZA 1981-8066	19811120 <--
DK 8105277	A	19820529	DK 1981-5277	19811127 <--
EP 53379	A1	19820609	EP 1981-109971	19811127 <--
R: BE, CH, DE, FR, GB, IT, NL, SE				
DE 3147133	A1	19820616	DE 1981-3147133	19811127 <--
PRIORITY APPLN. INFO.:			JP 1980-166662	19801128

PRIORITY APPLN. INFO.:

GR



AB Aminobenzoic acid derivs. (I, R1, R2, or R3 = H, alkyl, alkoxy, or halogen) were prep'd. having very low toxicity and high antiulcer activity. Thus, tablets were prep'd. contg. II Na salt [82050-63-3] 100, lactose 46, cryst. cellulose 27, corn starch 5, and Mg stearate 2 g. Tablets (180 mg) were effective in ulcer treatment. The antiulcer potency of the aminobenzoates was tested in rats. I can be administered orally (250-750 mg/day) or i.v. (50-150 mg/day).

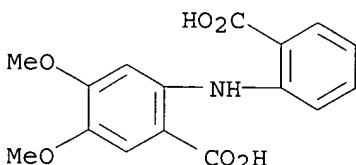
IT 82050-53-1P

RL: PREP (Preparation)

(prepn. of, for peptic ulcer treatment)

RN 82050-53-1 CAPLUS

CN Benzoic acid, 2-[(2-carboxyphenyl)amino]-4,5-dimethoxy- (9CI) (CA INDEX NAME)



L7 ANSWER 27 OF 42 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1982:34813 CAPLUS  
DOCUMENT NUMBER: 96:34813  
TITLE: Benzenamines and fungicide and anticoccidial compositions containing them  
INVENTOR(S): Clinton, Albert James  
PATENT ASSIGNEE(S): Lilly, Eli, and Co., USA  
SOURCE: Eur. Pat. Appl., 58 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

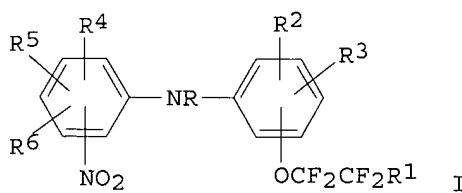
English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 33580	A1	19810812	EP 1981-300056	19810107 <--
EP 33580	B1	19840725		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4304791	A	19811208	US 1980-110308	19800108 <--
US 4311710	A	19820119	US 1980-110307	19800108 <--
IL 61776	A1	19840531	IL 1980-61776	19801221 <--
ZA 8100054	A	19820825	ZA 1981-54	19810105 <--
AU 8166011	A1	19810716	AU 1981-66011	19810106 <--
AU 542357	B2	19850221		
FI 8100024	A	19810709	FI 1981-24	19810107 <--
DK 8100049	A	19810709	DK 1981-49	19810107 <--
FI 8100025	A	19810709	FI 1981-25	19810107 <--
GB 2070590	A	19810909	GB 1981-385	19810107 <--
GB 2070590	B2	19841031		
ES 498357	A1	19820901	ES 1981-498357	19810107 <--
HU 24408	O	19830228	HU 1981-29	19810107 <--
HU 182281	B	19831228		
CS 221812	P	19830429	CS 1981-128	19810107 <--
CA 1160246	A1	19840110	CA 1981-368023	19810107 <--
HU 29388	O	19840130	HU 1981-30	19810107 <--
HU 187757	B	19860228		
CA 1164339	A1	19840327	CA 1981-368024	19810107 <--
AT 8617	E	19840815	AT 1981-300056	19810107 <--
CS 232712	B2	19850214	CS 1981-129	19810107 <--
JP 56100746	A2	19810812	JP 1981-2014	19810108 <--
JP 02049297	B4	19901029		
DD 157254	C	19821027	DD 1981-226881	19810108 <--
DD 157292	C	19821103	DD 1981-226883	19810108 <--
PL 124733	B1	19830228	PL 1981-229119	19810108 <--
RO 81684	P	19830429	RO 1981-103091	19810108 <--
PL 127027	B1	19830930	PL 1981-229118	19810108 <--
PRIORITY APPLN. INFO.:				
		US 1980-110307	19800108	
		US 1980-110308	19800108	
		EP 1981-300056	19810107	

GI



AB Diphenylamines I (R = H, alkyl; R1 = H, F; R2, R3 = H, halo; R4 = H, CF<sub>3</sub>, cyano, alkyl, CO<sub>2</sub>H, carbalkoxy; R5 = H, halo, NO<sub>2</sub>, OH, OMe, NH<sub>2</sub>; R6 = H, NO<sub>2</sub>) exhibited fungicidal and antico<sup>c</sup>cidial activity and they were prep<sup>d</sup>. from the resp. (polyfluoroethoxy)anilines. Thus, 4-(F<sub>2</sub>CHCF<sub>2</sub>O)C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub> was

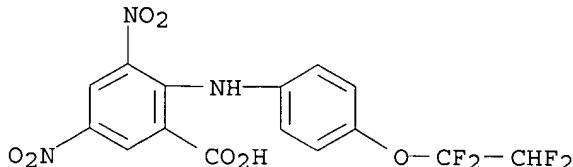
treated with  $6,2,4\text{-F}_3\text{C(O}_2\text{N)2C}_6\text{H}_2\text{Cl}$  and  $\text{Et}_3\text{N}$  to give  $6,2,4\text{-F}_3\text{C(O}_2\text{N)2C}_6\text{H}_2\text{NHC}_6\text{H}_4\text{(OCF}_2\text{CHF}_2\text{)}\text{-4}$ .

IT 79930-82-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 79930-82-8 CAPLUS

CN Benzoic acid, 3,5-dinitro-2-[[4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]-  
(9CI) (CA INDEX NAME)



L7 ANSWER 28 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1978:509139 CAPLUS

DOCUMENT NUMBER: 89:109139

TITLE: Quinolone derivatives

INVENTOR(S): Schacht, Erich; Dahm, Hans; Lissner, Reinhard

PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Fed. Rep. Ger.

SOURCE: Ger. Offen., 13 pp.

CODEN: GWXXBX

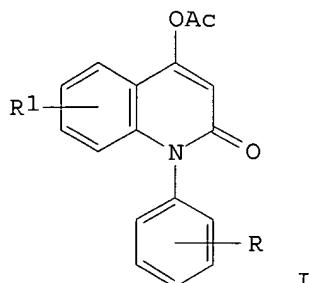
DOCUMENT TYPE: Patent

LANGUAGE: German

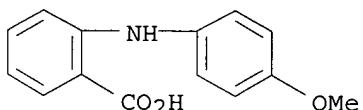
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2651581	A1	19780518	DE 1976-2651581	19761112 <--
US 4168312	A	19790918	US 1977-849585	19771108 <--
BE 860707	A1	19780510	BE 1977-182529	19771110 <--
SE 7712725	A	19780513	SE 1977-12725	19771110 <--
FR 2375215	A1	19780721	FR 1977-34039	19771110 <--
AU 7730546	A1	19790517	AU 1977-30546	19771110 <--
AU 510306	B2	19800619		
AT 7708039	A	19800915	AT 1977-8039	19771110 <--
AT 361928	B	19810410		
CA 1099721	A1	19810421	CA 1977-290590	19771110 <--
NL 7712447	A	19780517	NL 1977-12447	19771111 <--
JP 53063387	A2	19780606	JP 1977-136152	19771111 <--
ZA 7706752	A	19780927	ZA 1977-6752	19771111 <--
ES 464068	A1	19790101	ES 1977-464068	19771111 <--
GB 1547729	A	19790627	GB 1977-47125	19771111 <--
HU 175130	P	19800528	HU 1977-ME2121	19771111 <--
PRIORITY APPLN. INFO.:			DE 1976-2651581	19761112
GI				



AB The quinolones I (R = R1 = H, F, Cl, Br, CF3, MeO) were prep'd. for use as antithrombotics at 10-5000 mg. Thus, 2-(4-MeOC6H4NH)C6H4CO2H was heated with AcOH and Ac2O to give I (R = 4-MeO, R1 = H).  
 IT 13501-67-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclization of, with acetic anhydride)  
 RN 13501-67-2 CAPLUS  
 CN Benzoic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

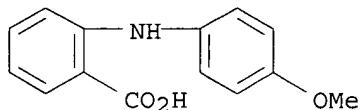


L7 ANSWER 29 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1977:520393 CAPLUS  
 DOCUMENT NUMBER: 87:120393  
 TITLE: 2,2,4-Trimethylpentyl N-1-naphthylanthranilate  
 INVENTOR(S): Braid, Milton  
 PATENT ASSIGNEE(S): Mobil Oil Corp., USA  
 SOURCE: U.S., 6 pp. Division of U.S. 3,856,690.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4021470	A	19770503	US 1974-519368	19741030 <--
US 3856690	A	19741224	US 1973-337185	19730301 <--
PRIORITY APPLN. INFO.:			US 1971-126891	19710322
			US 1973-337185	19730301

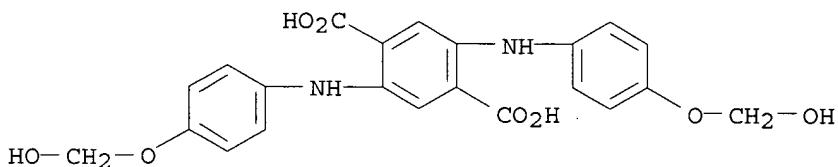
AB The title compd. [55290-87-4] and other N-naphthylanthranilates are useful as antioxidants for lubricating oils. Thus, a synthetic ester lubricating oil (prep'd. by treating pentaerythritol [115-77-5] with an equimolar mixt. of C5 and C9 carboxylic acids) contg. 1 wt.% of the title compd. (prep'd. by treating N-1-naphthylanthraniloyl chloride [55290-88-5] with 2,2,4-trimethyl-1-pentanol [123-44-4] in C6H6) showed an increase of 11% in the viscosity at 100.degree.F neutralization and an increase in acid no. of 0.76 unit on oxidn. with air (5L/h) for 24 h at 425.degree.F in the presence of Fe, Cu, Al, and Pb. The increases were much higher when anthranilates not contg. the naphthyl group were tested (e.g., Me

anthranilate [134-20-3]).  
 IT 13501-67-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (esterification of, with octanol)  
 RN 13501-67-2 CAPLUS  
 CN Benzoic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



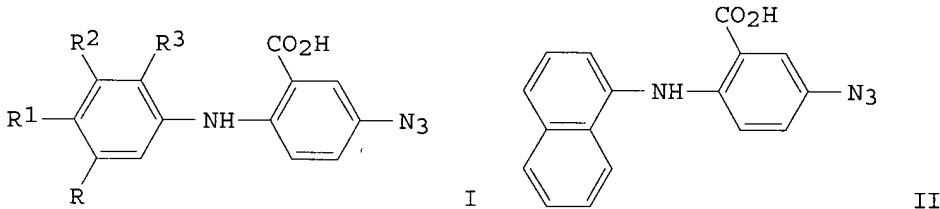
L7 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1977:454445 CAPLUS  
 DOCUMENT NUMBER: 87:54445  
 TITLE: Colored copolyesters  
 INVENTOR(S): Le Pape, Alain  
 PATENT ASSIGNEE(S): Ugine Kuhlmann, Fr.  
 SOURCE: Ger. Offen., 33 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2647426	A1	19770428	DE 1976-2647426	19761020 <--
FR 2328728	A1	19770520	FR 1975-32448	19751023 <--
FR 2328728	B1	19790504		
US 4049376	A	19770920	US 1976-729749	19761006 <--
BR 7606930	A	19770830	BR 1976-6930	19761015 <--
NL 7611638	A	19770426	NL 1976-11638	19761021 <--
BE 847584	A1	19770422	BE 1976-171751	19761022 <--
JP 52084281	A2	19770713	JP 1976-127147	19761022 <--
GB 1528346	A	19781011	GB 1976-43870	19761022 <--
PRIORITY APPLN. INFO.:			FR 1975-32448	19751023
AB	Naphthalimide, quinacridone, naphthoylebenzimidazole, and dioxazine dyes contg. two HOCH <sub>2</sub> CH <sub>2</sub> , HOCH <sub>2</sub> O, or CO <sub>2</sub> Et groups are copolycondensed with di-Me terephthalate (I) and HOCH <sub>2</sub> CH <sub>2</sub> OH (II) to give colored polyesters which can be spun or used for mass dyeing. Thus, I 100, II 100, MeOH 5, and Cd(OAc) <sub>2</sub> 0.04 part was heated to 220.degree. while distg. MeOH, 0.02 part (BuO) <sub>4</sub> Ti and 0.5 part N-(hydroxyethyl)-4-(hydroxyethylamino)-1,8-naphthalimide added, and the mixt. heated at 230-40.degree. and finally at 275.degree./0.05 torr to give copolyester (III) [63410-46-8] m. 255.degree. (pure poly(ethylene terephthalate) m. 254.degree.) which was spun to fluorescent yellow-green yarn with high color fastness. No color change was obsd. when III was heated under N for 5 h at 280.degree..			
IT	63266-99-9P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and cyclization of)			
RN	63266-99-9 CAPLUS			
CN	1,4-Benzenedicarboxylic acid, 2,5-bis[[4-(hydroxymethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)			



L7 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1976:600569 CAPLUS  
 DOCUMENT NUMBER: 85:200569  
 TITLE: Light-sensitive color-forming recording material  
 INVENTOR(S): Tsunoda, Takahiro; Ozutsumi, Minoru; Maeda, Shigeo;  
 Suzuka, Susumu; Komiya, Hidetoshi  
 PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan; Oji Paper Co.,  
 Ltd.  
 SOURCE: Ger. Offen., 28 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2539602	A1	19760325	DE 1975-2539602	19750905 <--
DE 2539602	B2	19770127		
DE 2539602	C3	19770915		
JP 51030723	A2	19760316	JP 1974-102911	19740909 <--
JP 52036697	B4	19770917		
US 4003747	A	19770118	US 1975-610400	19750904 <--
PRIORITY APPLN. INFO.:			JP 1974-102911	19740909
GI				



AB A light-sensitive color-forming recording material is described which consists of a support coated with a light-sensitive layer contg. a color-forming coupler, an azide I (R<sub>1</sub>, R<sub>2</sub> = H, Me; R<sub>1</sub> = H, Cl, HO, MeO, Et<sub>2</sub>N, Me; (R<sub>3</sub> = H, MeO) or II, and a binder. This material is esp. useful in prep. photoresists and printing plates. Thus, a light-sensitive, color-forming soln. composed of II 1.5, 4-methoxy-1-naphthol 1.0, a cresol-modified novolak resin 5.0, and ethylene glycol monomethyl ether 6.5 parts was whirl-coated on a poly(ethylene terephthalate) film support, dried at 50.degree. to give a film thickness of 3.5 .mu., exposed to a neg. for 90 sec at 1 m using a 2 kW superhigh-pressure Hg lamp, and then deveoped with a 1.4% aq. Na<sub>3</sub>PO<sub>4</sub> soln. to remove the nonexposed areas and

give a dark green relief image.

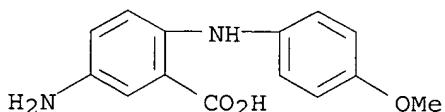
IT 61058-66-0

RL: USES (Uses)

(diazotization and reaction of, with sodium azide)

RN 61058-66-0 CAPLUS

CN Benzoic acid, 5-amino-2-[(4-methoxyphenyl)amino]-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

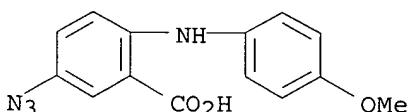
IT 58101-30-7 58211-75-9 61058-64-8

RL: USES (Uses)

(photosensitive color-forming compns. contg. color-forming coupler, phenolic resin binder, and, for photoresists and printing plates)

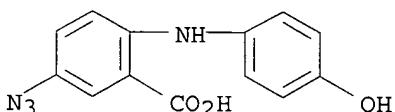
RN 58101-30-7 CAPLUS

CN Benzoic acid, 5-azido-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



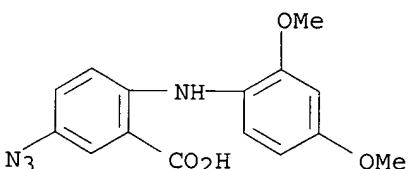
RN 58211-75-9 CAPLUS

CN Benzoic acid, 5-azido-2-[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 61058-64-8 CAPLUS

CN Benzoic acid, 5-azido-2-[(2,4-dimethoxyphenyl)amino]- (9CI) (CA INDEX NAME)



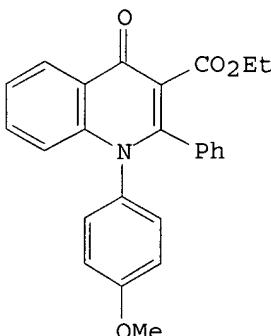
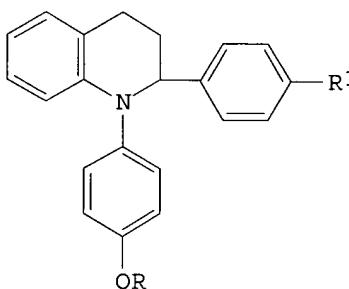
L7 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1976:446425 CAPLUS

Golam Shameem

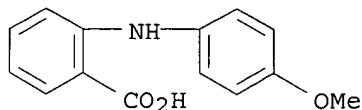
DOCUMENT NUMBER: 85:46425  
 TITLE: 1,2-Diphenyl-1,2,3,4-tetrahydroquinoline compounds  
 INVENTOR(S): Bell, Malcolm R.  
 PATENT ASSIGNEE(S): Sterling Drug, Inc., USA  
 SOURCE: U. S. Publ. Pat. Appl. B, 18 pp. Division of U.S.  
 3,819,637.  
 CODEN: USXXDP  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 402162	A1	19760302	US 1973-402162	19731001 <--
US 3994902	A	19761130		
US 3819637	A	19740625	US 1971-156070	19710623 <--
US 4049715	A	19770920	US 1975-593166	19750703 <--
PRIORITY APPLN. INFO.:			US 1971-156070	A3 19710623
			US 1973-402162	A2 19731001

GI

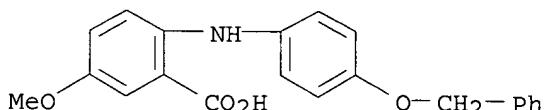


- AB Tetrahydroquinolines I [R = Et<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>, 2-(1-pyrrolidinyl)ethyl, R1 = H, Cl] were prep'd. by aminoalkylation of I (R = H). I (R = H; R1 = H, Cl) were prep'd. by several methods. Thus, 2-(4-methoxyphenoxy)quinoline was heated and the 1-(4-methoxyphenyl)carbostyryl hydrogenated followed by ring cleavage with PhLi and redn. to give o-(p-MeOC<sub>6</sub>H<sub>4</sub>)NHC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CH<sub>2</sub>CHPhOH, which was cyclized with p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H and the I (R = Me, R1 = H) cleaved with HBr to give I (R = R1 = H). I (R = Me, R1 = H) also was prep'd. by treating N-(4-methoxyphenyl)isatoic anhydride with PhCOCH<sub>2</sub>CO<sub>2</sub>Et to give II, which was hydrolyzed, decarboxylated and reduced. At 50-100 mg/kg I prevented pregnancy in rats. At 4-128 mg/kg I were hypcholesterolemic.
- IT 13501-67-2P 54197-69-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction with ethyl chloroformate)
- RN 13501-67-2 CAPLUS
- CN Benzoic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 54197-69-2 CAPLUS

CN Benzoic acid, 5-methoxy-2-[(4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1976:52131 CAPLUS

DOCUMENT NUMBER: 84:52131

TITLE: Light-sensitive, color-forming recording material

INVENTOR(S): Tsunoda, Takahiro; Ozutsumi, Minoru; Maeda, Shigeo;

Suzuka, Susumu; Komiya, Hidetoshi; Shinohara, Hideaki

PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan; Oji Paper Co., Ltd.

SOURCE: Ger. Offen., 44 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2450430	A1	19750507	DE 1974-2450430	19741023 <--
DE 2450430	B2	19760311		
DE 2450430	C3	19781214		
JP 50070105	A2	19750611	JP 1973-119543	19731024 <--
JP 51016801	B4	19760527		
JP 51006718	A2	19760120	JP 1974-77407	19740708 <--
JP 52039290	B4	19771004		
US 4019907	A	19770426	US 1974-515571	19741017 <--
GB 1470340	A	19770414	GB 1974-45444	19741021 <--
PRIORITY APPLN. INFO.:		JP 1973-119543	19731024	
		JP 1974-77407	19740708	

GI For diagram(s), see printed CA Issue.

AB A light-sensitive color-forming recording material composed of a support coated with a layer contg. an azide (I; R = H, alkoxy carbonyl, Me, MeCO, MeSO<sub>2</sub>, Et<sub>2</sub>NCO, aryloxysulfonyl, CO<sub>2</sub>H p-MeOC<sub>6</sub>H<sub>4</sub>O<sub>2</sub>C; R<sub>1</sub> = Ph, substituted Ph, 1-naphthyl, substituted 1-naphthyl) and a resin is described. The material is esp. useful for the prepn. of photoresists or relief images for printing. Thus, a soln. contg. I (R = CO<sub>2</sub>H; R<sub>1</sub> = p-MeC<sub>6</sub>H<sub>4</sub>) 5, a phenolic resin 8, cyclohexanone 30, and ethylene glycol monoethyl ether 60 parts was coated on a treated 1.0 mm Zn plate at 75 rpm, hot-air dried at 80.degree., exposed for 90 sec through a neg. original at 1 m using a 2-kw super high-pressure Hg lamp, developed in a 2% aq. Na metasilicate soln., and washed to give a hard, black relief image.

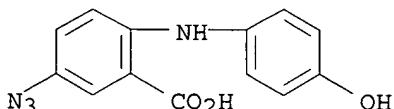
IT 58211-75-9

## RL: USES (Uses)

(photosensitive compns. contg. cresol resins and, for photoduplication)

RN 58211-75-9 CAPLUS

CN Benzoic acid, 5-azido-2-[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



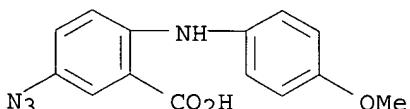
IT 58101-30-7

## RL: USES (Uses)

(photosensitive compns. contg. phenolic resins and, for printing plates)

RN 58101-30-7 CAPLUS

CN Benzoic acid, 5-azido-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1976:43882 CAPLUS

DOCUMENT NUMBER: 84:43882

TITLE: Intermediates for preparing acridines

INVENTOR(S): Anderson, Elvin L.; Graboyes, Harold

PATENT ASSIGNEE(S): Smithkline Corp., USA

SOURCE: U.S., 6 pp. Division of U.S. 3,781,358.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

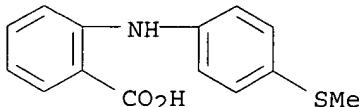
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3919312	A	19751111	US 1973-395483	19730910 <--
US 3625945	A	19711207	US 1968-732869	19680529 <--
US 3692834	A	19720919	US 1971-118976	19710225 <--
US 3781358	A	19731225	US 1972-267852	19720630 <--
PRIORITY APPLN. INFO.:			US 1968-732869	19680529
			US 1971-118976	19710225
			US 1972-267852	19720630

GI For diagram(s), see printed CA Issue.

AB Successive reaction of 4-ClC6H4NHC6H4CO2H-2 with SOCl2 and 4-MeC6H4SO2NNH2 gave 2-(4-ClC6H4NH)C6H4CONHNHSO2C6H4Me-4, which was refluxed with N2H4.H2O in EtoCH2CH2OH-H2O contg. NaOH to give the azine [2-(4-ClC6H4NH)C6H4CH:N]2; the latter underwent decompr.-cyclization in refluxing HOAc-HCl to give the acridine I (R = 2-Cl) (II). Alternately, acid catalyzed decompr.-cyclization of 2-(4-ClC6H4NH)C6H4CH:NNHCONH2 or 2-(4-ClC6H4NH)C6H4CH:NNHPh gave II. I (R = 2-CF3, 2-Bu, 4-Cl, 4-CF3, 1-Br, 2-Me, 4-MeO, 2-Me2NSO2, H) were prep'd. similarly.

IT 35958-19-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (acyl chlorination and reaction with toluenesulfonylhydrazine)  
 RN 35958-19-1 CAPLUS  
 CN Benzoic acid, 2-[[4-(methylthio)phenyl]amino]- (9CI) (CA INDEX NAME)

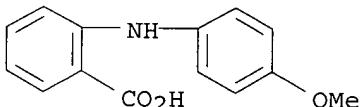


L7 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1975:413227 CAPLUS  
 DOCUMENT NUMBER: 83:13227  
 TITLE: Lubricant compositions containing derivatives of anthranilic acid  
 INVENTOR(S): Braid, Milton  
 PATENT ASSIGNEE(S): Mobil Oil Corp.  
 SOURCE: U.S., 6 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3856690	A	19741224	US 1973-337185	19730301 <--
US 4021470	A	19770503	US 1974-519368	19741030 <--
PRIORITY APPLN. INFO.:			US 1971-126891	19710322
			US 1973-337185	19730301

AB The prepn. of a lubricant antioxidant is described. Thus, 2,2,4-trimethylpentyl N-1-naphthylanthranilate [55290-87-4] is prep'd. by refluxing and hot filtering a mixt. of 2-(1-naphthylamino)benzenecarbonyl chloride [55290-88-5] 8.1 and 2,2,4-trimethyl-1-pentanol [123-44-4] 4.7 g, in 100 ml C6H6. The filtrate is extracted with 10% KOH soln., water-washed, and dried. Solvent and unreacted alc. are removed by distn. The ester product was obtained from the residue as viscous yellow oil. The antioxidant is used in 1-5 wt.% concn. in lubricating oils as well as in synthetic ester lubricants, e.g. pentaerythritol esters of monocarboxylic acids.

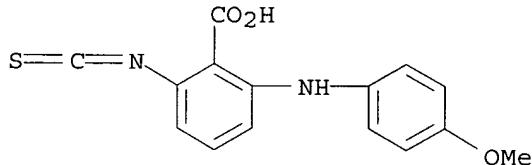
IT 13501-67-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (esterification of)  
 RN 13501-67-2 CAPLUS  
 CN Benzoic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



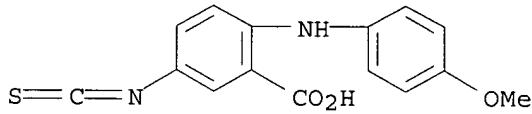
L7 ANSWER 36 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1975:409490 CAPLUS

DOCUMENT NUMBER: 83:9490  
 TITLE: Control of helminths with 4-  
 isothiocyanatodiphenylamines  
 INVENTOR(S): Brenneisen, Paul; Gallay, Jean J.; Margot, Alfred  
 PATENT ASSIGNEE(S): Ciba-Geigy Corp., USA  
 SOURCE: U.S., 8 pp. Division of U.S. 3,755,406 (CA  
 79;104909a).  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

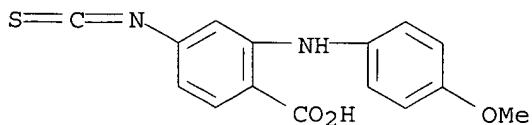
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3839582	A	19741001	US 1973-362702	19730522 <--
US 3755406	A	19730828	US 1969-839653	19690707 <--
PRIORITY APPLN. INFO.:			US 1969-839653	19690707
GI	For diagram(s), see printed CA Issue.			
AB	The prepn. and anthelmantic properties of 59 anilinophenyl isothiocyanates [I; R = e.g., 4-Cl, 4-MeS, 2,4-(NO <sub>2</sub> ) <sub>2</sub> , 2-CO <sub>2</sub> H; R = H, allyl, Pr; x = 3, 4, 5] was described. Thus, reaction of 4-ClC <sub>6</sub> H <sub>4</sub> NHC <sub>6</sub> H <sub>4</sub> NH <sub>2</sub> -4 with CsCl <sub>2</sub> gave I (R = Cl, R <sub>1</sub> = H, x = 4), which was 100% effective in eliminating ascaridia galli from chickens at 500 mg/kg body wt.			
IT	27163-15-1P 27163-16-2P 27188-07-4P			
RL	PREP (Preparation) (manuf. of anthelmintic)			
RN	27163-15-1 CAPLUS			
CN	Benzoic acid, 2-isothiocyanato-6-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)			



RN 27163-16-2 CAPLUS  
 CN Benzoic acid, 5-isothiocyanato-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



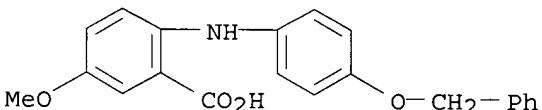
RN 27188-07-4 CAPLUS  
 CN Benzoic acid, 4-isothiocyanato-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



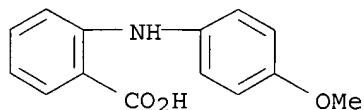
L7 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1974:520496 CAPLUS  
 DOCUMENT NUMBER: 81:120496  
 TITLE: 1,2-Diphenyl-1,2,3,4-tetrahydroquinolines  
 INVENTOR(S): Bell, Malcolm R.  
 PATENT ASSIGNEE(S): Sterling Drug Inc.  
 SOURCE: U.S., 14 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3819637	A	19740625	US 1971-156070	19710623 <--
US 402162	A1	19760302	US 1973-402162	19731001 <--
US 3994902	A	19761130		
US 4049715	A	19770920	US 1975-593166	19750703 <--
PRIORITY APPLN. INFO.:			US 1971-156070	A3 19710623
			US 1973-402162	A2 19731001

GI For diagram(s), see printed CA Issue.  
 AB Aminoethoxyphenylquinolines I (NR2 = pyrrolidino, NET2; R1= H, Cl) were prep'd. by aminoalkylating hydroxyphenyl-quinolines, prep'd. by total synthesis from p-MeOC6H4OH, 2-chloroquinoline, and p-R1C6H4Li in 7 steps. I were contraceptive in rats at 50-100 mg/kg daily for 6 days and lowered blood cholesterol levels by 43-80% at 4-128 mg/kg orally in rats for 4 days.  
 IT 54197-69-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction of, with chloroformate)  
 RN 54197-69-2 CAPLUS  
 CN Benzoic acid, 5-methoxy-2-[(4-(phenylmethoxy)phenyl]amino]- (9CI) (CA INDEX NAME)

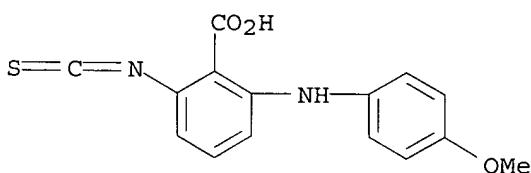


IT 13501-67-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with chloroformate)  
 RN 13501-67-2 CAPLUS  
 CN Benzoic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

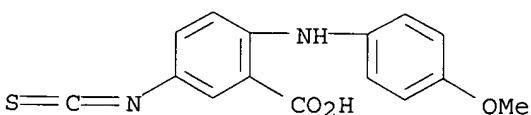


L7 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1973:504909 CAPLUS  
 DOCUMENT NUMBER: 79:104909  
 TITLE: Isothiocyanatodiphenylamines  
 INVENTOR(S): Brenneisen, Paul; Gallay, Jean J.; Margot, Alfred  
 PATENT ASSIGNEE(S): Ciba-Geigy Corp.  
 SOURCE: U.S., 7 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

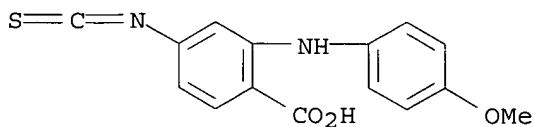
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3755406	A	19730828	US 1969-839653	19690707 <--
US 3839582	A	19741001	US 1973-362702	19730522 <--
PRIORITY APPLN. INFO.:			US 1969-839653	19690707
GI	For diagram(s), see printed CA Issue.			
AB	About 60 isothiocyanatodiphenylamines (I) (R = H, Cl, NO <sub>2</sub> , CO <sub>2</sub> H, Me, etc.; R <sub>1</sub> = Me, Pr, allyl; R <sub>2</sub> = H, Me, NO <sub>2</sub> , CO <sub>2</sub> H; R <sub>3</sub> position 3 or 4), useful as anthelmintics, were prep'd. from the amines II by reaction with CS <sub>2</sub> Cl <sub>2</sub> in inert solvents at 0-75.degree., with Et <sub>2</sub> NCSCl in PhCl at reflux, or with NH <sub>4</sub> SCN in PhCl at reflux in the presence of HCl. Some I were also prep'd. by treating II with benzoyl isothiocyanate in Me <sub>2</sub> CO and decompg. the resulting thioureas by heating in PhCl.			
IT	27163-15-1P 27163-16-2P 27188-07-4P			
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)			
RN	27163-15-1 CAPLUS			
CN	Benzoic acid, 2-isothiocyanato-6-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)			



RN 27163-16-2 CAPLUS  
 CN Benzoic acid, 5-isothiocyanato-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

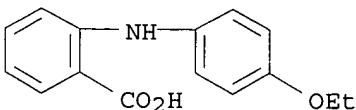


RN 27188-07-4 CAPLUS  
 CN Benzoic acid, 4-isothiocyanato-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

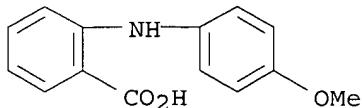


L7 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1973:29493 CAPLUS  
 DOCUMENT NUMBER: 78:29493  
 TITLE: Pharmacologically active substituted o-aminobenzoylhydrazines  
 PATENT ASSIGNEE(S): Ferlux  
 SOURCE: Fr. Demande, 35 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

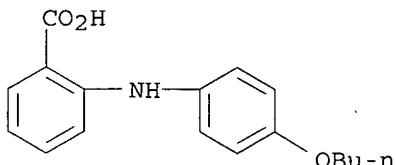
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2104930	A1	19720428	FR 1970-32533	19700908 <--
FR 2104930	A5	19720428		
FR 2104930	B1	19740830		
CH 548988	A	19740515	CH 1971-12903	19710902 <--
DE 2144566	A	19720323	DE 1971-2144566	19710906 <--
BE 772296	A1	19720307	BE 1971-107896	19710907 <--
US 3814772	A	19740604	US 1971-178383	19710907 <--
NL 7112379	A	19720310	NL 1971-12379	19710908 <--
JP 48056644	A2	19730809	JP 1972-79048	19720807 <--
PRIORITY APPLN. INFO.:			FR 1970-32533	19700908
GI	For diagram(s), see printed CA Issue.			
AB	About 40 benzoylhydrazines (I; R = substituted phenyl, aralkyl, 3-furylmethyl, Bu, substituted benzoyl; R1 = H, Cl; R2 = H, Cl; R3 = H, Me, Cl), with analgesic activities in mice, are prep'd. from the corresponding N-substituted anthranilic acids. The anthranilic acids react with COCl <sub>2</sub> to form the isatoic anhydrides II which with N <sub>2</sub> H <sub>4</sub> give I.			
IT	13278-33-6 13501-67-2 39492-47-2 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with phosgene)			
RN	13278-33-6 CAPLUS			
CN	Benzoic acid, 2-[(4-ethoxyphenyl)amino]- (9CI) (CA INDEX NAME)			



RN 13501-67-2 CAPLUS  
 CN Benzoic acid, 2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 39492-47-2 CAPLUS  
 CN Benzoic acid, 2-[(4-butoxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1972:448078 CAPLUS  
 DOCUMENT NUMBER: 77:48078  
 TITLE: Anthelmintic thioureas  
 INVENTOR(S): Spaun, Ruediger; Rochat, Alain C.; Gallay, Jean J.; Brenneisen, Paul  
 PATENT ASSIGNEE(S): Agripat S. A.  
 SOURCE: Ger. Offen., 41 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2143838	A	19720309	DE 1971-2143838	19710901 <--
CH 542828	A	19731130	CH 1970-13111	19700902 <--
CH 558367	A	19750131	CH 1970-19065	19701223 <--
US 3781290	A	19731225	US 1971-175723	19710827 <--
SE 380795	B	19751117	SE 1971-10949	19710830 <--
CA 973185	A1	19750819	CA 1971-121763	19710831 <--
NL 7112037	A	19720306	NL 1971-12037	19710901 <--
ZA 7105856	A	19720426	ZA 1971-5856	19710901 <--
FR 2105184	A1	19720428	FR 1971-31602	19710901 <--
FR 2105184	A5	19720428		
AU 7132959	A1	19730308	AU 1971-32959	19710901 <--
BR 7105771	A0	19730308	BR 1971-5771	19710901 <--
DD 100858	C	19731012	DD 1971-162561	19710901 <--
GB 1335881	A	19731031	GB 1971-40800	19710901 <--
HU 164555	P	19740328	HU 1971-AI197	19710901 <--
AT 315194	B	19740510	AT 1971-7612	19710901 <--
DK 129579	B	19741028	DK 1971-4304	19710901 <--
IL 37626	A1	19750210	IL 1971-37626	19710901 <--
ES 394693	A1	19750316	ES 1971-394693	19710901 <--
AT 321936	B	19750425	AT 1972-8689	19710901 <--
AT 321935	B	19750425	AT 1972-8688	19710901 <--
CS 169824	P	19760729	CS 1971-6267	19710901 <--

PL 90218	P 19770131	PL 1971-150294	19710901 <--
SU 470953	D 19750515	SU 1971-1839318	19710902 <--
SU 508184	D 19760325	SU 1971-1694851	19710902 <--
US 3898337	A 19750805	US 1973-405614	19731011 <--
US 3928437	A 19751223	US 1973-405619	19731011 <--
PRIORITY APPLN. INFO.:		CH 1970-13111	19700902
		CH 1970-19065	19701223
		CH 1970-91065	19701223
		US 1971-175723	19710827

GI For diagram(s), see printed CA Issue.

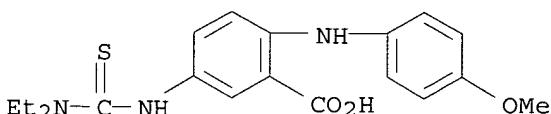
AB The thioureas I (R = Me, Et, Pr, Bu, EtMeCH, hexyl; R1 = Me, Et, Pr, Bu, hexyl; R2 = H, NO<sub>2</sub>, Cl, MeO, MeCONH, HO, Ph, H<sub>2</sub>NSO<sub>2</sub>, Me, Me<sub>2</sub>N, NH<sub>2</sub>; X = O, S, NH) were prep'd. from the corresponding isocyanates, R<sub>2</sub>C<sub>6</sub>H<sub>4</sub>X<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NCS, by treatment with RR<sub>1</sub>NH. Similarly prep'd. were II (R = MeO, Me, NO<sub>2</sub>, Br, MeS, Et, Cl, NO<sub>2</sub>; R1 = Ph, Me EtO<sub>2</sub>C, HOCH<sub>2</sub>CH<sub>2</sub>, Et, Pr, Bu, Me<sub>2</sub>CH). I and II were useful as anthelmintic agents.

IT 36587-13-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 36587-13-0 CAPLUS

CN Benzoic acid, 5-[[[(diethylamino)thioxomethyl]amino]-2-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1972:72237 CAPLUS

DOCUMENT NUMBER: 76:72237

TITLE: 2-(Acylamino)-6-(arylamino)benzoic acids

INVENTOR(S): Fujimura, Hajime; Suzuki, Kenji; Asai, Masaru; Asano, Osamu

PATENT ASSIGNEE(S): Sanwa Chemical Laboratories

SOURCE: Ger. Offen., 20 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2128381	A	19711216	DE 1971-2128381	19710608 <--
DE 2128381	C3	19791129		
DE 2128381	B2	19790405		
JP 48017267	B4	19730528	JP 1970-49666	19700609 <--
US 3867437	A	19750218	US 1971-145468	19710520 <--
NL 7107358	A	19711213	NL 1971-7358	19710528 <--
SE 366542	B	19740429	SE 1971-7336	19710607 <--
GB 1320484	A	19730613	GB 1971-19492	19710608 <--
CH 555806	A	19741115	CH 1971-8576	19710608 <--

PRIORITY APPLN. INFO.: JP 1970-49666 19700609

GI For diagram(s), see printed CA Issue.

AB Title compds. (I) were prep'd. by reaction of N-acyl-6-haloanthranilic

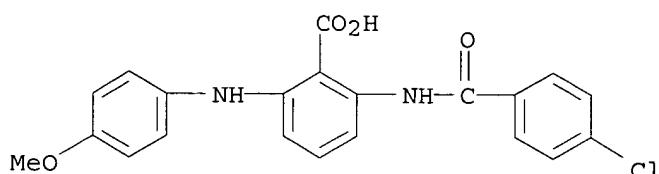
acids with corresponding amines  $\text{RNH}_2$  and used as purgatives. Thus,  $2,6\text{-I}(\text{BzNH})\text{C}_6\text{H}_3\text{CO}_2\text{H}$  reacted with  $\text{PhNH}_2$  in aq. DMF in the presence of  $\text{K}_2\text{CO}_3$  for 3 hr on a steam bath to give 80% I ( $\text{R} = \text{R}_1 = \text{Ph}$ ) (II). Similarly prep'd. were 39 addnl. I, e.g. ( $\text{R}$  and  $\text{R}_1$  given):  $\text{Ph}$ ,  $\text{Me}$ ;  $\text{Ph}$ ,  $\text{PhCH}:\text{CH}$ ;  $\text{p-MeOC}_6\text{H}_4$ ,  $\text{p-ClC}_6\text{H}_4$ ;  $\text{Ph}$ , furyl;  $2,3\text{-Me}_2\text{C}_6\text{H}_3$ ,  $\text{Ph}$ . The purgative activity of 40 I was tested in mice, e.g. ED<sub>50</sub> of II was 23.0 mg/kg on i.p. administration and 64.0 mg/kg on oral administration. LD<sub>50</sub> of II was 810 mg/kg on oral administration.

IT 35137-70-3P 35137-77-0P 35137-82-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

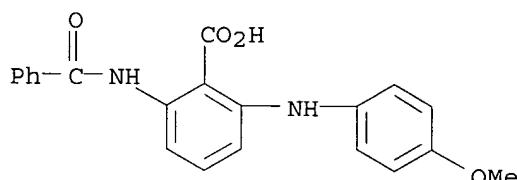
RN 35137-70-3 CAPLUS

CN Benzoic acid, 2-[(4-chlorobenzoyl)amino]-6-[(4-methoxyphenyl)amino]- (9CI)  
(CA INDEX NAME)



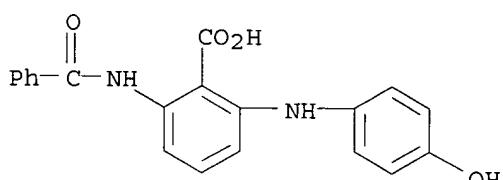
RN 35137-77-0 CAPLUS

CN Benzoic acid, 2-(benzoylamino)-6-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 35137-82-7 CAPLUS

CN Benzoic acid, 2-(benzoylamino)-6-[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1964:404111 CAPLUS

DOCUMENT NUMBER: 61:4111

ORIGINAL REFERENCE NO.: 61:617g-h,618a-f

TITLE: New fumaramic acid derivatives

INVENTOR(S): Schultz, Everett M.

PATENT ASSIGNEE(S) : Merck & Co.  
 SOURCE: 28 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 628135		19630807	BE	<--
FR M2763			FR	
GB 1021858			GB	
US 3277165		1966	US	<--

PRIORITY APPLN. INFO.: US 19620208  
 AB The title compds. increased uric acid excretion, inhibited penicillin excretion in renal tubules and biosynthesis of cholesterol in vitro, and decreased the incidence and seriousness of arteriosclerotic plates in the thoracic aorta of estrogen-treated chickens. These compds., contg. 1 or 2 asym. C atoms, yielded easily sepd. racemic mixts., or diastereoisomeric racemic mixts. The racemates were normally not sepd., but used as such. p-Chlorophenylacetone (I) (146.6 g.) alkylated with 161 g. p-chlorobenzyl chloride (II) in the presence of NaOH gave 64% 3,4-bis(p-chlorophenyl)-2-butanone (III), b0.75 177.degree.; 2,4-dinitrophenylhydrazone m. 154-5.degree.. III (135 g.) and 84 g. HCONH<sub>2</sub> was refluxed 14 hrs. at 170.degree. with addn. of HCO<sub>2</sub>H to maintain an acid vapor, the mixt. cooled, extd. with C<sub>6</sub>H<sub>6</sub>, the benzene residue refluxed 8 hrs. with 65 ml. concd. HCl, added to 300 ml. H<sub>2</sub>O, and heated 30 min. at 80.degree. to yield 29 g. 3,4-bis(p-chlorophenyl)-2-aminobutane-HCl (IV), begins to carbonize at 265.degree., and 65 g. lower melting isomer (IVa) of IV, m. 184-6.degree.. Excess 20% NaOH soln. was added to 140 ml. aq. suspension of 10 g. IV, the free base extd. with Et<sub>2</sub>O, the Et<sub>2</sub>O ext. dried over K<sub>2</sub>CO<sub>3</sub>, and concd. to an oily residue, which in 45 ml. C<sub>6</sub>H<sub>6</sub> was added to 4.88 g. Et fumaroyl chloride (V) in 10 ml. C<sub>6</sub>H<sub>6</sub>. After few min., 3.5 ml. Et<sub>3</sub>N was added, and the soln. agitated 1 hr. at 25.degree. to give 54% Et N-[1-methyl-2,3-bis(p-chlorophenyl)propyl] fumaramate (VI), m. 112-15.degree.. Sapon. of 19.8 g. VI in 50 ml. MeOH with 2.77 g. NaOH in 5.5 ml. H<sub>2</sub>O 13 hrs. at room temp. gave 71%. The free acid (VII) m. 101-9.degree.. IVa similarly treated yielded isomers of VI and VII. I (45 g.) and 44 g. PhCH<sub>2</sub>Cl gave 47.6 g. 3-p-chlorophenyl-4-phenyl-2-butanone, m. 80-1.degree., which gave 4.8 g. 3-p-chlorophenyl-4-phenyl-2-aminobutane-HCl (VIII), decomp. 240-50.degree., and 20.1 g. lower melting isomer of VIII, m. 196-8.degree.. VIII treated with V and then saponified yielded Et N-(1-methyl-2-p-chlorophenyl-3-phenylpropyl)fumaramate and the free acid, resp. PhCH<sub>2</sub>Ac and II gave 44% 4-p-chlorophenyl-3-phenyl-2-butanone (IX), b0.3 148-51.degree., m. 78-9.degree.. IX gave diastereoisomers, 4-p-chlorophenyl-3-phenyl-2-aminobutane-HCl (X), m. 290-2.degree., and a lower melting isomer, m. 179-80.degree.. Similarly, X yielded Et N-(1-methyl-3-p-chlorophenyl-2-phenylpropyl)fumaramate and the free acid. 1-(o-Bromophenyl)-2-propanone and o-bromobenzyl chloride (XI) gave the 2 isomers of N-[1-methyl-2,3-bis(o-bromophenyl)propyl]fumaramic acid. m-Chlorophenylacetone and XI gave 4-o-bromophenyl-3-m-chlorophenyl-2-butanone which then gave the 2 isomers of 4-o-bromophenyl-3-m-chlorophenyl-2-aminobutane-HCl, from which were prep'd. the 2 isomers of N-(1-methyl-3-o-bromophenyl-2-m-chlorophenylpropyl)fumaramic acid. AcCHPhCH<sub>2</sub>Ph (135 g.) gave isomeric mixt. of 3,4-diphenyl-2-aminobutane-HCl (XII), converted into 87 g. free base (XIII), b0.5 120-2.degree.. XIII (137 g.) gave 51 g. XII, m. 247-8.degree., and 71 g. lower melting isomer, m. 161-2.degree.. The 2 XIII isomers from XII yielded 2 Et N-(1-methyl-2,3-diphenylpropyl)fumaramates and 2 N-(1-methyl-2,3-diphenylpropyl)fumaramic acids. 2,3-Diphenyl-1-aminopropane-HCl and V

gave Et N-(2,3-diphenylpropyl)fumaramate, sapond. to the free acid. 3,3-Diphenyl-2-aminobutane and V gave Et N-(1-methyl-2,2-diphenylpropyl)fumaramate, sapond. to the free acid. .alpha.,.alpha.-Diphenyl-.beta.-methylbutyronitrile hydrogenated yielded 79% 2,2-diphenyl-3-methyl-1-aminobutane (XIV), b8 153-8.degree.; HBr salt m. 207-9.degree.. XIV gave Et N-(2,2-diphenyl-3-methylbutyl)fumaramate and the free acid. 1-Phenyl-2-benzyl-3-aminobutane-HCl, converted into its free base, b15 193-8.degree., gave Et N-(1-methyl-2-benzyl-3-phenylpropyl)fumaramate and the free acid. 1-Phenyl-3-hexanone (26.3 g.) gave 15 g. 1-phenyl-3-aminohexane-HCl, the free base of which, b25 142.degree., yielded Et N-(1-propyl-3-phenylpropyl)fumaramate and its free acid. 1,3-Diphenyl-1-aminopropane-HCl gave Et N-(1,3-diphenylpropyl)fumaramate and its free acid. A mixt. contg. 6.8 g. AcONa.3H<sub>2</sub>O and 6.9 g. NH<sub>2</sub>OH.HCl in 18 ml. H<sub>2</sub>O, and 15 g. 3,3,4-triphenyl-2-butanone in 100 ml. MeOH was refluxed 2 hrs. to yield 10.1 g. 3,3,4-triphenyl-2-butanone oxime (XV), m. 151-3.degree.. XV (10 g.) in 30 ml. abs. EtOH was hydrogenated to give 7.7 g. 3,3,4-triphenyl-2-aminobutane (XVI), a viscous oil which slowly crystd. XVI gave Et N-(1-methyl-2,2,3-triphenylpropyl)fumaramate and then its acid. To a stirred soln. contg. 4.5 g. fumaroyl chloride and 100 ml. Et<sub>2</sub>O, 4.5 g. NaHCO<sub>3</sub> was added, followed by dropwise addn. of 3.63 g. MePhCHNH<sub>2</sub> in 20 ml. Et<sub>2</sub>O, and the mixt. kept 16 hrs. at 25-30.degree. to yield 0.7 g. N-phenethylfumaramic acid, m. 200-1.degree..

IT 95620-79-4, Terephthalic acid, 2,5-di-p-phenetidino-  
(prepn. of)

RN 95620-79-4 CAPLUS

CN Terephthalic acid, 2,5-di-p-phenetidino- (7CI) (CA INDEX NAME)

